

Result No.	Score	Query Match	Length	DB ID	Description
1	895.2	BUS38214	942	13	BUS38214
2	796.8	AK017830	2300	11	AK017830
3	796.8	AK05445	2712	11	AK05445
4	795.8	AK032681	2639	11	AK032681

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	895.2	BUS38214	942	13	BUS38214

‡  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULTS

RESULT 1

LOCUS BUS38214

DEFINITION AGENCOURT\_10186479\_NIH\_MGC\_107\_Homo\_sapiens\_CDNA\_Clone IMAGE:568738 5 , mRNA sequence.

ACCESSION BU538214

VERSION BU538214.1

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Mammalia; Eutheria; Primates; Chordata; Craniata; Vertebrata; Buteleostomi;

COMMENT 1 (bases 1 to 942)  
1. Unpublished  
2. Contact: Robert Straussberg, Ph.D.  
Email: cgsabs@mail.nih.gov  
3. Tissue Procurement: ATCC  
4. NIH-MGC http://mgc.ncbi.nlm.nih.gov/  
5. National Institutes of Health, Mammalian Gene Collection (MGC)  
6. CDNA Library Preparation: Rubin Laboratory  
7. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
8. DNA Sequencing by: Agencourt Bioscience Corporation  
9. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:  
http://image.llnl.gov  
Plate: LICN2754 row: o column: 10  
High quality sequence stop: 680.

FEATURES	source	Location/Qualifiers
1..942	Db	tissue type="adenocarcinoma, cell line"
/organism="Homo sapiens"	Qy	
/mol_type="mRNA"	Db	/lab_host="DH10B (phage-resistant)"
/clone="IMAGE:6568738"	Qy	/note="NIH_MCG10"
/xref="IMAGE:9606"	Db	Site 2: XbaI cDNA made by oligo-dT priming.
/note="Organelle: breast; vector: pONB7; Site 1: ECORI;	Db	Directionally cloned into ECORI/XbaI sites using the
Site 2: XbaI cDNA made by oligo-dT priming.	Qy	following 5' adapter: GGCACCAAG. Library constructed by
Living Hong in the laboratory of Gerald M. Rubin (University	Db	of California, Berkeley) using ZAP-cDNA synthesis kit.
(Stratagene) and SuperScript II RT (Life Technologies).	Qy	Note: this is a NIH_MCG Library."
236 a 235 c 244 g 222 t	RESULT 2	
BASE COUNT	AK017830	
ORIGIN	LOCUS	AK017830 2300 bp mRNA whole body cDNA, RIKEN Full-length
Query Match 78.0%; Score 895.2; DB 13; Length 942;	DEFINITION	enriched library, clone:5130551F12 product:DOPAMINE RECEPTOR
Best Local Similarity 97.4%; Pred. No. 2.7e-34;	KEYWORDS	INTERACTING PROTEIN homolog [Rattus norvegicus], full insert
Matches 917; Conservative 0; Mismatches 23; Indels 1; Gaps 1;	SOURCE	sequence.
	ORGANISM	AK017830
	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;	GI:12857283
	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.	HTC; CAP Trapper,
	Mus musculus (house mouse)	Mus musculus
	REFERENCE 1	
	AUTHORS Carninci, P. and Hayashizaki, Y.	Carninci, P., Shibusawa, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
	TITLE High-efficiency full-length cDNA cloning	Title Meth. Enzymol. 303, 19-44 (1999)
	JOURNAL	JOURNAL 99279233
	MEDLINE	99279233
	PUBMED	10349636
	REFERENCE 2	
	AUTHORS Carninci, P., Aizawa, K., Hayatsu, N., Sugahara, S., Sasaki N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitaunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazuna, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujikawa, S., Inoue, K., Togawa, Y., Iizawa, M., Ohra, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuuwa, S., Kawai, J., Orazaiki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	
	TITLE Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	Title Genome Res. 10 (10), 1617-1630 (2000)
	JOURNAL	Genome Res. 10 (10), 1617-1630 (2000)
	MEDLINE	20499374
	PUBMED	11042159
	REFERENCE 3	
	AUTHORS Shibusawa, K., Itoh, M., Aizawa, K., Nagaoaka, S., Sasaki N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitaunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazuna, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujikawa, S., Inoue, K., Togawa, Y., Iizawa, M., Ohra, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuuwa, S., Kawai, J., Orazaiki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	
	TITLE RIKEN integrated sequence analysis (RISEA) system -384-format sequencing pipeline with 384 multicapillary sequencer	Title Genome Res. 10 (11), 1757-1771 (2000)
	JOURNAL	Genome Res. 10 (11), 1757-1771 (2000)
	MEDLINE	10230913
	PUBMED	11076861
	REFERENCE 4	
	AUTHORS Kawai, J., Shinagawa, A., Shibusawa, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Iizawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaoka, I., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehi, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G., Quackenbush, J., Schriml, L.M., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M.F., Brownstein, M.J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D.A., Kamiya, M., Lee, N.H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombretti, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H.,	
	TITLE	CGTTGATGCCCTCTTCCTCAATTCAATGTAGCTGGCTGAGCACCCAGATGGCCCTCTCTGCT
	JOURNAL	CGTTGATGCCCTCTTCCTCAATTCAATGTAGCTGGCTGAGCACCCAGATGGCCCTCTCTGCT
	MEDLINE	902
	PUBMED	902



- |  |  |  |                            |                   |        |                 |  |  |
|--|--|--|----------------------------|-------------------|--------|-----------------|--|--|
|  |  |  |                            |                   |        |                 |  |  |
| Sato, K., Schonbach, C., Seye, T., Shibata, Y., Storch, K.F., Suzuki, H., Toyo-oka, K., Wang, K.H., Weitz, C., Whitaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawai, H., Koh-tsuki, S. | 2082   | GAACCTTTCGGCACCTCACCTGGCCACTTGACCTCTAGGCCAACAG   | 2141                       |                   |        |                 |  |  |
| Qy   | 841  | CACAGTACCCAAAGGAGAACCTAAGCGGGAGAAAGTGAAGGCCCTTCA   | 900                        |                   |        |                 |  |  |
| Db   | 2142   | TTCAGAACCCCCGGGAGGGGAAACCCAAACCGGGAGAAAGTGAAGGCCCTTCA  | 2201                       |                   |        |                 |  |  |
| Qy   | 901  | ACGTTGATGCCCTTCCTCTT--TTCCCTAAATAATGTCAAGGGAGTCAAAGGCTGT-  | 955                        |                   |        |                 |  |  |
| Db   | 2202   | ACGATGACACCCCTCTCTTCTTAATAATGTCAAGGGAGTCAAAGGCTGTGT  | 2261                       |                   |        |                 |  |  |
| Qy   | 956  | -AGCAAGGATGGAGGTTGATTAT  | 979                        |                   |        |                 |  |  |
| Db   | 2262   | ACGACAGGGATGGAAATTGTATT  | 2287                       |                   |        |                 |  |  |
| REFERENCE  | RESULT   | AK045445   | 3                          |                   |        |                 |  |  |
| AUTHORS  | LOCUS  | AK045445   | 2712 bp                    | mRNA              | linear | HTC 05-DEC-2002 |  |  |
|  | DEFINITION   | Mus musculus adult male corpora quadrigemina cDNA, RIKEN Full-length enriched library, Clone: B2312016 product:DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus], full insert sequence.  |                            |                   |        |                 |  |  |
| ACCESSION  | VERSION  | AK045445_1   | GI:26337372                | HTC; CAP trapper. |        |                 |  |  |
| KEYWORDS   | ORGANISM   | Mus musculus   | Mus musculus (house mouse) |                   |        |                 |  |  |
| REFERENCE  | AUTHORS  | Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  |                            |                   |        |                 |  |  |
| TITLE  | Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes |  |                            |                   |        |                 |  |  |
| JOURNAL  | MEDLINE  | Genome Res. 10 (10), 1617-1630 (2000)  |                            |                   |        |                 |  |  |
| PUBMED   | 11049636   |  |                            |                   |        |                 |  |  |
| REFERENCE  | AUTHORS  | Carinici, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.   |                            |                   |        |                 |  |  |
| TITLE  | Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes |  |                            |                   |        |                 |  |  |
| JOURNAL  | MEDLINE  | Genome Res. 10 (10), 1617-1630 (2000)  |                            |                   |        |                 |  |  |
| PUBMED   | 11049636   |  |                            |                   |        |                 |  |  |
| REFERENCE  | AUTHORS  | Kobayashi, K., Itoh, M., Aizawa, K., Nagaoaka, S., Sasaki, N., Carinici, P., Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sunti, N., Ishii, Y., Nakamura, M., Hazama, M., Nishimi, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashivagi, K., Fujikawa, S., Inoue, K., Togawa, Y., Izawa, M., Chara, E., Watanuki, M., Yone, Y., Ishikawa, T., Tanaka, T., Matsuo, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.   |                            |                   |        |                 |  |  |
| TITLE  | RIKEN integrated sequence analysis (RISA) system-384 format sequencing pipeline for 384 multicapillary sequencer                   |  |                            |                   |        |                 |  |  |
| JOURNAL  | MEDLINE  | Genome Res. 10 (11), 1757-1771 (2000)  |                            |                   |        |                 |  |  |
| PUBMED   | 11049636   |  |                            |                   |        |                 |  |  |
| REFERENCE  | AUTHORS  | Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Aizawa, T., Hara, M., Fukunishi, Y., Konno, H., Adachi, J., Futuda, S., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nakaido, I., Pesole, G., Quackenbush, J., Schriml, L.M., Staubli, F., Tomita, M., Waner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carinici, P., de Bonaldo, M.F., Brownstein, M.J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D.A., Kamiya, M., Lee, N.H., Lyons, P., Marzocchini, L., Maslana, J., Mazzarelli, J., Nobrega, N., Nordone, P., Ring, B., Rirawald, M., Rodriguez, J., Sakamoto, N., Sasaki, H., |                            |                   |        |                 |  |  |
| TITLE  | Functional annotation of a full-length mouse cDNA collection   |  |                            |                   |        |                 |  |  |
| JOURNAL  | MEDLINE  | Nature 409 (6821), 685-690 (2000)  |                            |                   |        |                 |  |  |
| PUBMED   | 11217851   |  |                            |                   |        |                 |  |  |
| REFERENCE  | AUTHORS  | The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team  |                            |                   |        |                 |  |  |
| TITLE  | Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs                                     |  |                            |                   |        |                 |  |  |
| JOURNAL  | MEDLINE  | Nature 420, 563-573 (2002)   |                            |                   |        |                 |  |  |
| PUBMED   | 11217851   |  |                            |                   |        |                 |  |  |
| REFERENCE  | AUTHORS  | Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carinici, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hirakawa, T., Hirozawa, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kasukawa, T., Katoh, H., Kawai, J., Koijima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuya, T., Miyazaki, R., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Onsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shingyawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku, A., Takeda, Y., Tanaka, T., Tomaru, A., Toyota, T., Yasunishi, A., Muramatsu, M., and Hayashizaki, Y.  |                            |                   |        |                 |  |  |
| TITLE  | JOURNAL  | Direct Submission  |                            |                   |        |                 |  |  |
|  |  | Submitted (16-JUL-2001) Yoshihiko Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 220-0015, Japan (E-mail: genome-res@gsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-303-9222, Fax: 81-45-503-9216)  |                            |                   |        |                 |  |  |
|  |  | CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in RIKEN. Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Please visit our web site for further details.   |                            |                   |        |                 |  |  |
|  |  | URL: http://genome.gsc.riken.go.jp/  |                            |                   |        |                 |  |  |
|  |  | Location/Qualifiers  |                            |                   |        |                 |  |  |
|  |  | 1. organism="Mus musculus"   |                            |                   |        |                 |  |  |
|  |  | /mol_type="mRNA"   |                            |                   |        |                 |  |  |
|  |  | /strain="C57BL/6J"   |                            |                   |        |                 |  |  |
|  |  | /db_xref="FANTOM_DB:B230120106"  |                            |                   |        |                 |  |  |
|  |  | /clone="B230120106"  |                            |                   |        |                 |  |  |
|  |  | /sex="male"  |                            |                   |        |                 |  |  |
|  |  | /tissue_type="corpora quadrigemina"  |                            |                   |        |                 |  |  |
|  |  | /clone_lib="RIKEN full-length enriched mouse cDNA library"   |                            |                   |        |                 |  |  |
|  |  | /dev_stage="adult"   |                            |                   |        |                 |  |  |
|  |  | 177 - 228 8  |                            |                   |        |                 |  |  |
|  |  | /note="unnamed protein product: DOPAMINE RECEPTOR (SPTR_Q025G7, evidence: FASTY, 92.7%ID, 1001length, match=2109)"   |                            |                   |        |                 |  |  |
|  |  | INTERACTING PROTEIN homolog [Rattus norvegicus] (SPTR_Q025G7, evidence: FASTY, 92.7%ID, 1001length, putative"  |                            |                   |        |                 |  |  |
|  |  | /codon_start=1 /protein_id="BAC12372.1"  |                            |                   |        |                 |  |  |
|  |  | /db_xref="GI: 6337373"   |                            |                   |        |                 |  |  |
|  |  | /transcript_id="MAOQ3H73"  |                            |                   |        |                 |  |  |
|  |  | /db_xref="DBPEDIAELEYDEEPERKEPDBPSRCVSKREPLSRKRFJKEYDPSGRBEPKA PGRHRFLARKSOTDKRGLGMVEELCOLQAGEMWILLYVEVETCGLIYA CRKLKGDDLIDDLERWVGVWARMXTMFQSLQSFCVWGLIRLIRVGAFLL ALALFGCLQOLGRWYKPTKKGQCNAPVAGRYCOPPEETVLLIMAGVPEDELNPFLVIG RLJQWQHOLPKVKORTKKQGNTA   |                            |                   |        |                 |  |  |



AUTHORS	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
TITLE	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
JOURNAL	Nature 420, 563-573 (2002)
REFERENCE	(bases 1 to 263)
AUTHORS	Adachi J., Alzawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Horii, F., Imamura, K., Ishii, Y., Itoh, M., Kagawa, T., Kasukawa, T., Kawai, J., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakizume, N., Saito, H., Sasada, D., Shibata, K., Shinagawa, A., Shiraki, T., Segabe, Y., Tegami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, T., Toya, T., Yasunishi, A., Muramatsu, M., and Hayashizaki, Y.
JOURNAL	Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-re@gsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216).
COMMENT	cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
FEATURES	Please visit our web site for further details. URL: http://genome.gsc.riken.go.jp/ URL: http://Fantom.gsc.riken.go.jp/
Source	Location/Qualifiers 1..2639 /organism="Mus musculus" /mo_type="mRNA" /strain="C57BL/6J" /db_xref="FANTOM DB: 6530416L18" /db_xref="taxon:1090" /clone="6530416L18" /tissue_type="cerebellum" /clone_id="FANTOM full-length enriched mouse cDNA library" /dev_stage="10 days neonate" /note="DOPAMINE RECEPTOR INTERACTING PROTEIN homolog (Rattus norvegicus) (SPTR Q925G7, evidence: FASTY, 92.7%ID, 100%length, match=2109) putative" BASE COUNT ORIGIN Query Match Best Local Similarity Matches 881; Conservative 0; Mismatches 98; Indels 7; Gaps 2;
misc_feature	Score 795.2; DB 11; Length 2639;
RESULT	5
AK082579	4231 bp mRNA linear HTC 05-DEC-2002
LOCUS	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C20:0066C20 product:DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus], full insert sequence.
DEFINITION	AK082579
ACCESSION	AK082579
VERSION	AK082579.1 GI:26349792
KEYWORDS	CAP trapper.
SOURCE	Mus musculus (house mouse)
ORGANISM	Mus musculus
REFERENCE	Carninci, P. and Hayashizaki, Y.
AUTHORS	Mammalia; Eutheria; Rodentia; Chordata; Craniata; Vertebrata; Euteleostomi; Muridae; Murinae; Mus.
TITLE	High-efficiency full-length cDNA cloning
JOURNAL	Neth. Brzymol. 303, 19-44 (1999)
MEDLINE	9927923
PUBMED	10349656

REFERENCE	2	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.	AUTHORS
TITLE		Normalization and subtraction of cP-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	
JOURNAL	Genome Res.	10 (10), 1617-1630 (2000)	
MEDLINE	20499374		
PUBMED	11042159		
REFERENCE	3	Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitasuna, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishizawa, T., Harada, A., Yamamoto, R., Matsunoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwara, S., Inoue, K., Togawa, Y., Iizawa, M., Ohara, E., Watanuki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.	AUTHORS
TITLE		RIKEN integrated sequencing pipeline with 384 capillary sequencer	
JOURNAL	Genome Res.	10 (11), 1757-1771 (2000)	
MEDLINE	20303913		
PUBMED	11076861		
REFERENCE	4	Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Iwasa, M., Nishi, K., Kyobawa, H., Kondo, S., Yamamoto, I., Saito, T., Okazaki, Y., Gojobori, T., Bonci, H., Kasukawa, T., Harada, A., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiba, H., Kiehl, P., Lewis, S., Matsuo, Y., Niikaido, I., Pesole, G., Queckenbosch, J., Schriml, J., Staubli, F., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Baldarelli, R., Barish, G., Boffelli, D., Bojunga, N., Brownstein, M., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D. A., Kamiya, M., Lee, N. H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, J., Sakamoto, N., Sasaki, H., Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K. F., Suzuki, H., Toyosawa, K., Wang, K. H., Weitz, C., Whittaker, C., Wilmung, L., Wynnshaw-Boriss, A., Yoshida, K., Hasegawa, Y., Kawai, H., Konotsuki, S., and Hayashizaki, Y.	AUTHORS
TITLE		Functional annotation of a full-length mouse cDNA collection	
JOURNAL	Nature	409 (6821), 685-690 (2001)	
MEDLINE	2085660		
PUBMED	11217851		
REFERENCE	5	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.	AUTHORS
TITLE		Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs	
JOURNAL	Nature	420, 563-573 (2002)	
REFERENCE	6	(bases 1 to 4231)	
AUTHORS	Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imortani, K., Ishii, Y., Itoh, M., Kasawa, I., Kasukawa, T., Katoch, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numasaki, R., Ohsato, N., Ohazaki, Y., Saito, R., Saitoh, H., Sakai, C., Shizume, N., Sano, H., Sasaki, D., Shibata, K., Shingawa, A., Shiraki, T., Segabe, Y., Tagami, M., Tegawa, A., Takahashi, P., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Tomonishi, A., Muramatsu, M., and Hayashizaki, Y.		
TITLE		Direct Submission	
JOURNAL			
COMMENT		CDNA library was prepared and sequenced in Mouse Genome	
REFERENCE	241	GGAGGCCTCAAGTTGCGAGCACCTGGACATGTGCAAATGCTGAAAGCCAAA 300	AUTHORS
JOURNAL			
COMMENT	361	GTCCAGCTGCAAGATGACCTCAAGGGAATGATACTGATGTAACGCCA 420	
REFERENCE	1529	GGAGGGCTTCAAATTTCGGGGCACCTGGACATGTGCAAAGGGGAA 1588	AUTHORS
JOURNAL			
COMMENT	301	CGAGTATGAGTAGAAAGGAATGGCAAGAATGACTGCGGTGAGTAAATGAGTTCT 360	
REFERENCE	1589	GGAATATGAGTAACGATTAATCCTGATAAAATCACCATCCCGGGCTGA 1528	AUTHORS
JOURNAL			
COMMENT	361	GTCCAGCTGCAAGATGACCTCAAGGGAATGATACTGATGTAACGCCA 420	

Db	1649	GTCGAAACTAAGGTGACCTCAAGGGAAATGGACACCGATGATGTTGAGCAATGGCCA	1700
Qy	421	AGGAAGCATAGGAGTTGAAATGGACCGGAACCTAACAGTGCAGATACTGTGCTGA	480
Db	1709	AGGAAGCATAGGAGTTGAAATGGACCGGAACCTAACAGTGCAGATACTGTGCTGA	1768
Qy	481	GTGTATAGGTGCTCTGTGAGGAAAGGACTTTGGCAGAGTCAGCATGGGG	540
Db	1769	GTGTAACAGGTGATCTGTGAGGAAAGGACTTTGGCAGAGTCAGCATGGGG	1828
Qy	541	CCTCAAGATCACCTACTTGTGACTGATGGATGGAAAGGTGATGACATCACAGGTGGGC	600
Db	1829	CCTCAAGATCACCTACTTGTGACTGATGGATGGAAAGGTGATGACATCACAGGTGGGC	1888
Qy	601	TGGATGCCAGGTGAGTATCTCCAGATACCCAGATCCAGTCCCTATCACATCTATT	660
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Qy	661	TGGTCTCGGATTCAGGCCAGAGGGCCAGAGCCACCCAGATGCCCTCTTCCTGC	780
Db	1949	TGGTCTCGGATTCAGGCCAGAGGGCCAGAGCCACCCAGATGCCCTCTTCCTGC	2008
Qy	721	TGATCTTCAGGATTCTTGACTTGAGATCTTGAGTCTGGATCTGGATCTGGAAATGG	780
Db	2009	TGACCTCGAGGATTCTTGAGCCTGGATCTTGAGTCTGGATCTGGATCTGGAAATGG	2068
Qy	781	GAACCTCTTTCAGGCTCTAGGCTCTAGGCTCTAGGCTCTAGGCTCTAGGCTCTAGG	840
Db	2069	GAACCTCTTTCAGGCTCTAGGCTCTAGGCTCTAGGCTCTAGGCTCTAGGCTCTAGG	2128
Qy	841	CACAGTACCCAAAGGGAAGCCAAACCTAACGGGGAAAGAAATGGAGGGCCCTTCCA	900
Db	2129	TCAGTACCCAAAGGGAAGCCAAACCTAACGGGGAAAGAAATGGAGGGCCCTTCCA	2188
Qy	901	ACGTATGGCCCT	955
Db	2189	ACGTATGGCCCT	2248
Qy	956	--AGCAACGGATGGAGTTGATTT 979	
Db	2249	ACGGACACGGATGGAAATTGATTT 2274	
RESULT 6			
LOCUS	BU956189	918 bp mRNA linear EST 21-OCT-2002	
DEFINITION	AGENCOURT 10613510 NIH_MGC_107 Homo sapiens cDNA clone		
ACCESSION	BU956189	IMAGE:6729715 , mRNA sequence.	
VERSION	BU956189.1	GI:24185761	
KEYWORDS	EST.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
MATERIAL	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;		
MAMMALIA	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	1 (bases 1 to 918)		
AUTHORS	NIH-MGC http://mgc.ncbi.nih.gov/		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished		
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaps-r@nih.nih.gov Tissue Procurement: ARCC CDNA Library Preparation: Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LiNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium LiNL at: http://image.linni.gov Plate: LlCM303 row: f column: 18		
FEATURES	High quality sequence stop: 544. Location/Qualifiers source 1..918 /organism="Homo sapiens"		

Qy	1014	TCTCTTATTTGAG-ATGGAGCTTGCTC-TGTTGCCAGGTGGAGT 1062	TITLE			
Db	781	TCTCTTATTTGAGGGAGCTTGCTCTGACCCACCTGGAT 831	JOURNAL		Analysis of the mouse transcriptome based on functional annotation	
RESULT	7		REFERENCE		60,70 full-length cDNAs	
AK045345	AK045345	A 3022 bp mRNA linear. HTC 05-DEC-2002	AUTHORS		Nature 420, 563-573 (2002)	
LOCUS	AK045345	Mus musculus adult male corpora quadrigemina cDNA. RIKEN	ADachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hata, A., Hasizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hirokawa, T., Hirozane, T., Horii, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Karoh, H., Kawai, J., Koimori, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murat, M., Nakamura, M., Nishi, K., Nomura, K., Ohnato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shinaawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, Y., Takahashi, F., Takaku, Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toyota, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.			
DEFINITION		Full-length enriched library, Clone:B23010423 product:DOPAMINE RECEPTOR INTERACTING PROTEIN homolog [Rattus norvegicus], full insert sequence.	ORGANISM			
ACCESSION	AK045345	AK045345-1 GI:263337270	KEYWORDS			
VERSION		HTC: CAP trapper.	SOURCE			
ORGANISM	Mus musculus	Mus musculus (house mouse)				
Eukaryota; Chordata; Craniata: Vertebrata: Euteleostomi: Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.						
REFERENCE	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.	COMMENT	JOURNAL			
AUTHORS		High-efficiency full-length cDNA cloning	TITLE			
		Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes	JOURNAL			
REFERENCE	Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.	COMMENT	JOURNAL			
AUTHORS		Prepare full-length cDNA libraries for rapid discovery of new genes	MEDLINE			
PUBMED	1039636	Genome Res. 10 (10), 1617-1630 (2000)				
REFERENCE	Carninci, P., Aizawa, K., Itoh, M., Nagaoaka, S., Sasaki, N., Carninci, P., Konno, H., Akizawa, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishime, T., Harada, A., Yamamoto, R., Matsunoto, H., Sakauchi, S., Ikegami, T., Kashiwagi, K., Fujimoto, S., Inoue, K., Togawa, Y., Tawa, M., Ohara, E., Watchiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuurra, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.	FEATURES	source			
AUTHORS		RIKEN integrated sequencing pipeline with 384 multicapillary sequencer	JOURNAL			
PUBMED	11042159	Genome Res. 10 (11), 1757-1771 (2000)				
REFERENCE	Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hata, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamana, K., Kadota, K., Matsuda, H., Gojobori, T., Bono, H., Sakurada, T., Ashburner, M., Batalov, S., Casavant, T., Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuhnl, P., Lewis, S., Matsuo, Y., Naito, I., Pesole, G., Quackenbush, J., Schriml, L.M., Staubli, F., Suzuki, R., Tomita, M., Wagner, J., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Barrell, R., Barsh, G., Blake, J., Boffelli, J.D., Bojunga, G., Carninci, P., de Bonaldo, M.F., Brownstein, M.J., Bult, C., Fletcher, C., Fujita, M., Garibaldi, M., Gustincich, S., Hill, D., Hoffmann, M., Hume, D.A., Kamiy, M., Lee, N.H., Lyons, P., Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H., Sato, K., Schonbach, C., Seya, T., Shibata, Y., Storch, K.F., Suzuki, H., Toyo-oka, K., Wang, K.H., Weitz, C., Whitaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hassgawa, Y., Kawaji, H., Kotsuki, S., and Hayashizaki, Y.	CDSS				
AUTHORS		Functional annotation of a full-length mouse cDNA collection	JOURNAL			
PUBMED	11076861	Nature 409 (6621), 685-690 (2001)				
REFERENCE			BASE COUNT	753	a	716 c
AUTHORS			ORIGIN			826 g
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			Best Local Similarity	89.5%	Length	3022;
			Matches	883;	Indels	8;
			Matches	96;	Caps	3;
REFERENCE	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.	1	GCCTTGGCTAAGCAAGATAATTAGGCAAGGGAAATGCACTGACTAGTGGGGCTA 60			



Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sesaki, D., Shibata, K., Shingawa, A., Shiraki, T., Scgabé, Y., Tagami, M., Tagaya, A., Takahashi, F., Takaku, T., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yamamoto, M., and Hayashizaki, Y.	421	AGGAAAGATAGGGAGTTGAAATGGACCGGAACCTAGAGTCAGATCTGGCTGA
Submitted (16-APR-2002) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 220-0015, Japan (E-mail: genome_rsc@riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-303-9222, Fax: 81-45-503-9216)	1720	AGGAAAGATAGGGAGTTGAAATGGACCGGAACCTAGAGTCAGATCTGGCTGA
COMMENT cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Division of Experimental Animal Research in Riken contributed to preparation mouse tissues. Please visit our web site for further details. URL: http://genome.gsc.riken.go.jp/ URL: http://fantom.gsc.riken.go.jp/ Location/Qualifiers	481	GTCGATATGGGTGCACTTGTGACTGCATCCCTACATCACATCCTGGGG
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BASE COUNT ORIGIN	1039 g	1051 t
Query Match Best Local Similarity 68.6%; Score 7864; DB 11; Length 4053;	RESULT 9	
Matches 882; Conservative 0; Mismatches 96; Indels 8; Gaps 3;	BM802135	
Qy 1 GCCTGGTGAAAGCGAATAATTAAATAGGCCGGGATGCCCTGTAGCTAGGGCTA 60	LOCUS	BM802135 NIH_MGC_88 Homo sapiens cDNA Clone IMAGE:5559503
Db 1300 GCCCTGGTAAACAGGGCTAAAACGGGAATGCCCTGTAGCTAGGGCTA 1359	DEFINITION	5', mRNA Sequence.
Qy 61 CTGCCAGCTGAAGGGAAGTGGCTCGACCTTGACCATGGTCTGGGTCTCTGAGATGA 120	ACCESSION	BM802135.1 GI:19118958
Db 1360 CTGCCAGCTGAAGGGAAGTGGACCTGCCCTGAGCTTCTGAGATGA 1419	VERSION	EST.
Qy 121 GCTAAACCCCTTCAGTGTACTGGGGTGGCCACAGCATCAGTGTAACTGAGAA 180	KEYWORDS	Homo sapiens (human)
Db 1420 ACTAAACCCCTTCAGTGTACTGGGGTGGCCACAGTGTAACTGAGAA 1479	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Qy 181 GGCTTATAGACAGCTGGCACTGTATGGTCAAAATCATCATCCCCGGCTGA 240	REFERENCE	1 (bases 1 to 957)
Db 1480 GGCTTATAGACAGCTGGCACTGTATGGTCAAAATCATCATCCCCGGCTGA 1539	AUTHORS	NIH-MGC http://mgc.nci.nih.gov/
Qy 241 GGAGGCCCTTAAGGTTTGGGAGCTGGCATATTGCAATGCTAAAGCGAA 300	TITLE	Mammalian Gene Collection (MGC)
Db 1540 GGAGGCCCTTAAGGTTTGGGAGCTGGCATATTGCAATGCTAAAGCGAA 1599	JOURNAL	Unpublished
Qy 301 GGAGTATGAGTAAACGATGGCAGAGAATGAGCTGACCTGGTCAAGTGTAACTGAGTTCT 360	COMMENT	Contact: Robert Strausberg, Ph.D. Email: ccapbs-r@mail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Life Technologies, Inc. cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL) DNA Sequencing by: Agencourt Bioscience Corporation Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/ILNL at: http://image.llnl.gov Plate: ILAM12284 row: c column: 24 High quality sequence stop: 621.
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RESULT 12	Qy	697	AGCCCACCCAGATGCCCTCCGGATCTTCAAGATTCTTCAAGT
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DEFINITION	NTH_MGC_12 Homo sapiens cDNA clone IMAGE:5139876 5 , mRNA sequence.		
ACCESSION	60296387F1		
VERSION	BI333110		
KEYWORDS	EST.		
ORGANISM	Homo sapiens (human)		
BioProject	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Primates; Catarrhini; Hominidae; Homo.		
REFERENCE	1 (bases 1 to 785)		
AUTHORS	NIH-MGC http://mgc.ncbi.nlm.nih.gov/ .		
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)		
JOURNAL	Unpublished		
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgbps-@email.nih.gov		
Tissue	Procurement: ATCC		
Library Preparation:	Life Technologies, Inc.		
Arrayed by:	Incyte Genomics, Inc.		
DNA Sequencing by:	Incyte Genomics, Inc.		
Clone distribution:	MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: http://image.llnl.gov		
Place:	LLNL1341 row: m column: 21		
High quality sequence stop:	775.		
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ORIGIN	source		
Query Match	61.6% ; Score 706.4; DB 12; Length 785;		
Best Local Similarity	98.4%; Pred. No. 1 9e-25;		
Matches	777; Conservative 0; Mismatches 6; Indels 7; Gaps 6;		
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Qy	577 GGTGTATACATCACAGTCAGTCATGGTCTCGGATCTCCAGATACCCA	635	
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 Qy 1071 GTGATCTCAGCTTACGTAAACCTCTGTCCTCCGGGTCAAGCAATTCTCCATCTAGCC 1130  
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Qy 551 ACCTACTTGGACTGATGGATGGAAAGGGTATGACATCACAGTGCGCTGGATGCCAG 610  
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 Qy 671 ATTCAAGGACCGAGGGGGAGGAGGACCCAGATGCCCTCCCTGCTGATCTTCAG 730  
 Db 301 ATTCAAGGACCGAGGGGGAGGAGGACCCAGATGCCCTCCCTGCTGATCTTCAG 360

Qy 731 GATTCTTGAGTCGATCTTCAGTACCTCCAGATGCCCAATGGAAACTCTTT 790  
 Db 361 GATTCTTGAGTCGATCTTCAGTACCTCCAGATGCCCAATGGAAACTCTTT 419

Qy 791 GCAGGTCCTCAGCTGCCCTGGAGCCCTGCAAGCTTAAGCCCACACCATACCC 850  
 Db 420 GCAGGTCCTCAGCTGCCCTGGAGCCCTGCAAGCTTAAGCCCACACCATACCC 479  
 Qy 851 AAGGGAGAAGCCAACCTAACGCCCCCTCCACAGGAGAAATGAGGAGGCT 910  
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Qy 911 CCCTTCCTTCCTTCCTGGAGCCCTGCAAGCTTAAGCCCACACCATACCC 969  
 Db 540 CCCTTCCTTCCTTCCTGGAGCCCTGCAAGCTTAAGCCCACACCATACCC 599  
 Qy 970 TTGATTATCCCTCTCCCCAAACCTTAAGGGGGAAAGATGAGGAGGCT 1089  
 Db 600 -TTGATTATCCCTCTCCCCAAACCTTAAGGGGGAAAGATGAGGAGGCT --TCTTTTTTTTG 654

Qy 1030 AGATGGAGTCCTGGCTGCTGAGTCAGTGCTGATCTCAGCTTACTGCA 1089  
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COMMENT found through the I.M.A.G.E. Consortium/LINL at:  
 Email: cgabs@nih.gov  
 Tissue Procurement: DOD/DRP/Gazdar  
 CDNA Library Preparation: Life Technologies, Inc.  
 DNA Sequencing by: Incyte Genomics, Inc.  
 Clone distribution: MGC clone distribution information can be  
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 Job time : 2789 secs

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 Db 110998 ACCATGACACCCCTTCCTCCCTCAAAATCAATGTCAGGAGTCAAAGGGCTGT 111057  
 Qy 956 --AGCACAGGATGGAGTTGATTAT 979  
 Db 111058 ACGGCACGGGATAGAAATTGATTAT 111083

Search completed: December 1, 2003, 08:50:25  
 Job time : 4382 secs

JOURNAL COMMENT  
Submitted (10-MAY-2003) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA  
On May 10, 2003 this sequence version replaced gi:25012326.  
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Artilis (<http://www.hgsc.bcm.edu/project/rat/>). Each contig described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the Feature table.

----- Genome Center  
Center: Baylor College of Medicine  
Center code: BCM  
Web site: <http://www.hgsc.bcm.tmc.edu/>

Contact: [hgsc-help@bcm.edu](mailto:hgsc-help@bcm.edu)

Project Information

Center project name: GFIX

Center Client Name: CH230-5/L/1  
Surname: STAPLETON

## Assembly program: Atlas 3.0

Consensus Quality: 23353 bases at least 0

Consensus Quality: 235537 bases at least 0

Consensus quality: 236797 bases at least 0

Estimated insert size: 246711; sum-of-cont

Quality coverage: 7x in Q20 bases; sum-of-

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**FIGURE 1.** Estimated insert size may differ from *l* (see <http://www.bioscience.org>)

(see <http://www.nyse.com/does/Genb>)

consists of 2 contigs. The true order of the



Williams,G., Williamson,A., Wleczky,R., Woorden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Neison,D., Weinstock,G. and Gibbs,R.
Direct Submission
Unpublished
2 (bases 1 to 263371)
Worley,K.C.
Direct Submission
Submitted (23-OCT-2001) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
3 (bases 1 to 263371)
Worley,K.C.
Direct Submission
Submitted (10-OCT-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
On Oct 10 2002 this sequence version replaced gi:2195352.
The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas ( <a href="http://www.hgsc.bcm.edu/projects/rat/">http://www.hgsc.bcm.edu/projects/rat/</a> ). Each contig described in the feature table below represents a scaffold in the Atlas assembly ('contig-scaffold'). Within each contig scaffold, individual sequence contigs are ordered and oriented, and separated by size gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence only contigs will be indicated in the feature table.
JOURNAL
AUTHORS
TITLE
JOURNAL
AUTHORS
REFERENCE
TITLE
JOURNAL
AUTHORS
COMMENT

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----- Genome Center
Center: Baylor College of Medicine
Center code: BCM
Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
----- Project Information
Center project name: TMD
Center clone name: CH230-2H10
----- Summary Statistics
Assembly program: Phrap; version 0.990329
Consensus quality: 243674 bases at least Q40
Consensus quality: 246530 bases at least Q30
Consensus quality: 240548 bases at least Q20
Estimated insert size: 24731; sum-of-contigs estimation
Quality coverage: 7x in Q20 bases; sum-of-contigs estimation
----- *
* NOTE: Estimated insert size may differ from sequence length
* (see http://www.hgsc.bcm.tmc.edu/docs/Gebank/draft_data.html)
* NOTE: This is a 'working draft' sequence. It currently
* consists of 3 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
*   1 258056: contig of 258056 bp in length
*   2 258057 258156: gap of unknown length
*   3 261384: contig of 3228 bp in length
*   4 261385 261484: gap of unknown length
*   5 261485 263371: Contig of 1887 bp in length.
Location/Qualifiers
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  /mol_type="genomic DNA"
  /db_Xref="Gaxon.1.01.16"
  /clone="CH230-2H10"
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1. .1125
  /note="wgS contig"
miss_feature
2121. .4146
  /note="wgS contig"
miss_feature
5480. .6935
  /note="wgS Contig"

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                /note="wgs contig"
miss_feature    258157 . 259735
                /note="wgs contig"
miss_feature    259889 . 261384
                /note="wgs contig"
BASE COUNT      75390 a 46168 C 46816 g 81072 t 13925 others
contig

```

Query	Match	Score	DB 1	DB 2	Length	2633371;	
	Best Local Similarity	87.5%	Pred. No.	4e-236;			
	Matches	862;	Conservative	0;	Mismatches	117;	
Qy	1	GCCTTGGTCAAGAAGAATTTAACTGGGCGACTTGACATGGCTGGGTCTGACTCTTGACCATGGCTGGGTCTCTGAGGATGA	120	Indels	6;	Gaps	2;
Db	143349	GCCTTGGTCAAGAAGAATTTAACTGGGCGACTTGACATGGCTGGGTCTCTGACTGGGTCTCTGAAAGATGA	143				
Qy	61	CTGCAGCCTGAAAGGAAATGGGCGACTTGACATGGCTGGGTCTCTGACTGGGTCTCTGAAAGATGA	120				
Db	143289	CTGCAGCCTGAAAGGAAATGGGCGACTTGACATGGCTGGGTCTCTGAAAGATGGGTCTCTGAAAGATGA	143				
Qy	121	GCTAAACCTTTCATGFACTGGGTGAGCTGATCAGATGTGAACTGAGAA	180				
Db	143229	ACTAAACCTTTCATGFACTGGGTGAGCTGATCAGATGTGAACTGAGAA	143				
Qy	181	GGCTTATGACAGTGGCAAGTGTGAGCTGAGCTGATCAGTAAATACTCGACAAAAATCTCGACATCCCTGGCTGA	240				
Db	143169	AGCTTATGGCAGTGGCTGAGCTGAGCTGATCAGTAAATACTCGACATCCCTGGCTGA	143				
Qy	241	GGGGCCCTCAAGTTTGGGAGCTTGGGACATTTCAGGATGTGAAAGGGAAA	300				
Db	143109	GGGGCCCTTAAGTTTGGGAGCTTGGGACATTTCAGGATGTGAAAGGGAAA	143				
Qy	301	GGATGATGATGAAACGAAATGGCAGAAATGAGCTGAGCTGAACTGAAATGTTCT	360				
Db	143049	GGATATGAGATGAAACGAAACGGATGGCAGAAATGGCTAGCCTGAGGATGGCTAGGAAATGAGCTGAAATGTTCT	1429				
Qy	361	GTCCAAGTGGCAAGATGACCTCAAGGGCAATTGGCAAGCTGAGCTGAACTGAAATGTTCT	420				
Db	142969	TTCGAAGTACAGATGATGTTCAAGGCCAATGAAATCGATGATGTCAGGCCGTGCA	1429				
Qy	421	AGGAAGCATAGGTTGAAATGGACCGGAACTTAAGATGCAAGATACTGGCTGA	480				
Db	142229	AGGGAAAGCATGGAGGTTGAAATGGACCGGAAACCAAGATGCAAGATACTGGCTGA	1428				
Qy	481	GTGTAATAGCTGCTACTTGTGAGGAGACTTTGGGAGAGTCAGCATGTTGG	540				
Db	142869	GTGTAACGGTGCATCTGTGACTGAGGAGACTCTGGCAAGATGTTGG	1428				
Qy	541	CCTCAAGATCACCTACTTGTGAGGAGACTTTGGGAGAGTCAGCATGTTGG	600				
Db	142809	CCTCAAGATCACCTACTTGTGACTGAGGAGACTCTGGCAAGATGTTGG	1427				
Qy	601	TGGATGCCAGCTGTTGAGTATCTCCCAAGATACCCAGAGCTCCCTATCACATCATT	660				
Db	142749	TGGATGCCAGCTGTTGAGTATCTCCCAAGATCCCTATCACATCATT	1426				
Qy	661	TGGTCTCTGGATTCCAGGACCAGAGGGGGCGAGBAGCCACCCAGATGCCCTCTGC	720				
Db	142689	TGGTCTCTGGATTCCAGGACCAGAGGGGGCGAGBAGCCACCCAGATGCCCTCTGC	1426				
Qy	721	TGATCTTCAGATTTCAGCTTCAAGTACCCAGGGAGATSCCCATGG	780				
Db	142629	TGACCTGGCAGATTTCAGCTTCAAGTACCTCAGGGCAATGGCTCAATGG	1425				
Qy	781	GAACCTTTCAGCTGAGCTCTGAGCTTCAAGTACCCAGGGAGATSCCCATGG	840				
Db	142569	GAACCTTTCAGCTCTGAGCTTCAAGTACCCAGGGAGATSCCCATGG	900				
Qy	841	CACACTACCCAGGAAAGCCAAACCTAACTGGGGAAAGTGAAGTGGAGGCCCTTCCA	1425				
Db	142509	TTCACTATCCAAAGGAAAGCCAAACCTAAACGTTGAGAAAGTGAAGTGGGGCTTCCA	1425				

Query	Match	Score	781	8;	DB	10;	Length	2392;
Best	Local	Similarity	86.2%		Pred.	No.	1.7e-241;	
Mismatches	Conservative	0;	Mismatches	107;	Indels	6;	Gaps	
1	GCCTTGGTGTAAAGGAGAATATTAAATAGGCAAGGGATGCAACCTGTAGTCATGGGGCTA	6						
1360	GCCTTGGTGTAAAGGAGAATCTGGCACTGCCATGTACCTAGCGGGGAT	1						
61	CTCCAGGCTGAACAGGAAGTGGCTGACTCTGACCATGGCTGGGGTTCTGAGGATGA	1						
1420	CTCCAGGCTGAAGGAAGTGCCGACTCTGACCATGGCTGGGGTTCTGAGGATGA	1						
121	GCTAAACCTTTCATGTAATGGGGTTGAGGCCACGATCAGATGTTGAACTGAGAA	1						
1480	ACTAAACCTTTCATGTCCTGGGGTTGAAAGCTAACGATCCGATATGAACTAAAGAA	1						
181	GCCTATAGACACCTGGTAGGTGTTCATCTGTGACAAAAATCATCATCCCCGGCTGA	2						
1540	GCCTATAGGACACTAGGGACTAGGGTGTGGTCCATCTGTGATAAAACCACTCCCGGCTGA	1						
241	GGAGGCCCTTCAACAGCTTTCGACGACTGGGACATTGTCAGGATATTGCTGAAAGCGAA	3						
1600	GGAGGCCCTTAAAGTTTGGGGAGCTGGGACATGGCTCAGGATTCAGAGAGGGAA	1						
301	GGAGTATGAGTAAACCAATGGCAGAGATGGCTGAGCTTAATGTTCT	3						
1660	GGAAATATGAGTAAACGGATGGCAGAAATGGCTCAGGATGGCTCAGGATTCAGAGAGGGAA	1						
361	GTCAACTGCAAGATGACCTTAAGGAGGCAATGAATACTATGATGTTAGCCATGCCA	4						
1720	GTGGAAGCTAACAGATGACCTTAAGGGCAAATGAATACTGATGTTAGCCATGCCA	17						
421	AGGAAAGCATGGAGCTTGTAAAATGGCCGGAAACCTTAAGAGGCCAGATACTGTGCTGA	4						
1780	AGGAGGACATGGAGCTTGTAAAATGGCCGGAAACCTTAAGAGGCCAGATACTGTGCTGA	18						
481	GTGAAATAGGTGCACTCTGCTGAGGAGACTTTGGCAGCTAACGATGTTGG	54						
1840	GTGTAACAGGGTCACTCTGCTGAGGAGACTCTGGAGGAGACTCTGGAGTGG	18						
541	CCTCAAGATCACCTACTTTGCACTGATGGATGCCAAGGGTGTAGCTTACATCTGCTGG	60						
1900	CTCAAGATCACCTACTTTGCACTGATGGATGCCAAGGGTGTAGCTTACATCTGCTGG	19						
601	TGGATGCCAACGGTGTAGGTATCTCCCAAGATACCCAAGGGCTTACATCTGCTGG	66						
1960	TGGATGCCAACGGTGTAGGTATCTCCCAAGATACCCAAGGGCTTACATCTGCTGG	20						
661	TGGATCTCGGATTCGGCACCTGGGACAGGAGCCACCCAGATGCCCTCTGC	72						
2020	TGGATCTCGGATACGGCACCTGGGACAGGAGCCACCTGGGACAGTCCCCTCTGC	20						

QY	721	TGATCTTCAGGATTCTTGATGCGATTTCAAGTACCCCGAGGGCAGGCTCATGGCCAAATGG	780
Db	2080	TGACTGTGAGGATTCTTGAGCCGATTTCAAGTACCCGAGGGCAGGCTCATGGCCAAATGG	213
QY	781	GAACGTCTTGCAGGTCCTGCAGCTGCCCTGGACGCCGCTGAGGGCTCTAAGGCCAACAG	840
Db	2140	GAACGTCTTGCAGGTCCTGCAGCTGCCCTGGACACTACTCAACCTCAGGCCAACAG	219
QY	841	CACAGTACCCAAGGGAGAGCCAAACCTTAAGGGGAGAAAGTGAGGGAGCCCTTCCA	900
Db	2200	TTCAGTACCCAAGGGAGAGCCAAACCTTAAGGGGAGAAAGTGAGGGAGCCCTTCCA	225
QY	901	ACGTTGATGCCCTTCTCTT-TCCCTCAATCAATGTCAGGGACTCAAAGGGCTGT--	955
Db	2260	AAGATGACACCCCTTCTCTTCAGTCATGTCAAGGAGTCAGGAGTCAGGAGTCAGTGTGTA	231
QY	956	-AGCACAGGATGGAGGTTGATTAT	979
Db	2320	CAGCGCAGGATGGAGGTTGATTAT	2344
RESULT 13			
AUTHORS	AC098449/c	Muzny, D.M., Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C., Alsbrooks, S.L., Amaratunga, H.C., Are, J.R., Ayelle, M., Banks, T., Barbara, J., Benton, J., Bimase, K., Blaikenberg, K., Bonnin, D., Bouck, J., Bowie, S., Brieva, M., Brown, E., Brown, M., Bryant, N.P., Buhray, C., Burch, P., Burkett, C., Burrell, K.L., Byrd, N.C., Carron, T.F., Carter, M., Cavazos, S.R., Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Z., Chowdhry, I., Christopoulos, C., Cleveland, C.D., Cox, C., Coyne, M.D., Dathorne, S.R., David, R.R., Davila, M.L., Davis, C., Davy-Carroll, L., Dederich, D.A., Delaney, K.R., Delgado, O., Denn, A.J., Ding, Y., Dinh, H.H., Douthwaite, K.J., Draper, H., Dugan-Rocha, S., Durbin, K.J., Earthman, C., Edgar, D., Edwards, C.C., Elhaij, C., Escott, M., Falls, T., Ferraguto, D., Flagg, N., Ford, J., Foster, P., Frantz, P., Gabisi, A., Gao, J., Garcia, B., Garner, T., Garza, N., Gill, R., Gorrell, J.H., Guevara, W., Gunaratne, P., Hale, S., Hamilton, K., Harris, C., Harris, K., Hart, M., Haviaik, P., Hawes, A., Hernandez, J., Hernandez, O., Hodson, A., Hogue, M., Holloway, C., Hollins, B., Homsi, F., Howard, S., Huber, J., Hulyk, S., Hume, J., Jackson, L.E., Jacobson, B., Jia, Y., Johnson, R., Jolivet, S., Joudah, S., Karissom, B., Kelly, S., Khan, U., King, L., Korvah, J., Kovari, C., Kratovic, J., Kureshi, A., Landry, N., Leal, B., Lewis, L.C., Lewis, L., Li, J., Li, Z., Lightarge, O., Lieu, C., Liu, J., Liu, W., Louiseged, H., LaZebnik, R., Lu, X., Lucier, A., Lucier, R., Luna, R., Ma, J., Maheshwari, M., Mapua, P., Martin, R., Martindale, A., Martinez, E., Massey, B., Mawhinney, E., Mcleod, M.P., Meador, M., Mei, G., Metzker, M., Miner, G., Miner, Z., Mitchell, T., Mohabat, K., Morgan, M., Morris, S.S., Moser, M., Neal, D., Newton, N., Nguyen, A., Nguyen, N., Nguyen, N., Nickerson, E., Nwokenwo, S., Oguri, M., Okwunuo, G., Oragunye, N., Oviedo, R., Pace, A., Payton, B., Peery, J., Perez, L., Peters, L., Pickens, R., Primus, E., Pu, L.L., Quiles, M., Ren, Y., Rives, M., Rojas, A., Rojubokan, I., Rolfe, M., Ruiz, S., Savery, G., Scherer, S., Scott, G., Shen, H., Shooshbari, N., Siisson, I., Sodergren, B., Sonaike, T., Sparks, A., Stanley, H., Stone, H., Sutton, A., Svatek, A., Tabor, P., Tameria, K., Tang, H., Tansey, J., Taylor, C., Taylor, T., Telford, B., Thomas, N., Thomas, S., Umhani, K., Vasquez, L., Warren, D., Vinalion, D., Vinson, R., Wang, Q., Wang, S., Ward-Moore, S., Washington, C., Warlinton, S.,	213
DEFINITION	AC098454	Rattus norvegicus clone CH230-2H10, WORKING DRAFT SEQUENCE, 3 unordered pieces.	213
VERSION	AC098454.4	G1-23664557	213
KEYWORDS	HTGS_DRAFT; HTGS_FULLTOP.		213
SOURCE	Rattus norvegicus (Norway rat)		213
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus		213
1 (bases 1 to 263371)			213
REFERENCE			213

This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, GenomeScan gene prediction.

LocationQualifiers

1. .2402

/organism="Mus musculus"  
 /mol\_type="mRNA"  
 /strain="CZECH II"  
 /db\_xref="taxon:10090"  
 /clone="MGC:19282 IMAGE:4016209"  
 /tissue\_type="Mammary tumor metastasized to lung."  
 MMTV-LTR/Wnt1 model. Expression driven by an MMTV-LTR





Qy	1042	GCTCGTTGCCAGTGGAGTCAGTGATCTAGCTTACTGCAACCTCTGTCTCC	11.01	Qy	2	CCTGGGTCTAGCAGAAATTATAGGCGGGAAATGACACTGTAATGGCGGCTAC	6.1
Db	781	GCTCGTTGACAGTGGAGTCAGTGATCTAGCTTACTGCAACCTCTGTCTCC	8.40	Db	1394	CCCTGGTCAAACAGGGCCAATAGGGGAAATGACACTGTAATGGCGGCTAC	14.53
Qy	1102	CGGGTCAAGAACATCTCCATCTAGCTCTGAGTAGTGGAT	11.47	Qy	62	TGCCAGCTGAAAGGAAGTCAGCTGACTCTGACATGGTGGTCTGAGATGAG	12.1
Db	841	CGGGTCAAGAACATCTCCATCTAGCTCTGAGTAGTGGAT	8.66	Db	1454	TGCCAGCTGAAAGGAAGTCAGCTGACTGGTGGTCTGAGATGAG	15.13
RESULT	8			Qy	122	CTAACCCCTTCATGTAATGGGAGCATGTCAGCAATGTTGAACTGAGAAG	18.1
LOCUS	AY027882	2492 bp mRNA, linear	MAM 25-SEP-2001	Db	1514	CTAACCCCTTCATGTCAGCAATGTTGAACTGAGAAG	15.73
DEFINITION	Bos taurus J-domain protein Jiv mRNA, complete cds.			Qy	182	GCCTATAGACAGTGGAGCTGACTGTTACCTCGGGCTGAG	24.1
ACCESSION	AY027882			Db	1574	GCCTATAGCAGTGGAGCTGAGTGGTCTATCTCTGCTGAG	16.13
VERSION	AY027882.1	GI:15777194		Qy	242	GAGGCCTTAAAGTTTGGGAGCATGTCAGCAATGTTGAAAGGAAG	3.01
KEYWORDS	Bos taurus (cow)			Db	1634	GAACCTCAAGGTTGGGAGCTGGACATGTCAGCAACCTGAAAGGGAG	16.93
ORGANISM	Bos taurus			Qy	302	GAGTAGATGAAAGGAATGGAGAGATGAGCTGAGCTAAATGAGTTCTG	36.1
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			Db	1694	GAATATGAGATGAAAGGAATGGAGATGAGTTGAGATGAGTTCTG	17.53
	Bivalvia; Bivalvia; Cetartiodactyla; Ruminantia; Pecora; Bovidae;			Qy	362	TCCAGCTGAAAGTACCTCAGAGGAATGAACTATGAGTGTGAGCGATGCCA	4.21
REFERENCE	Bovidae; Bovinae; Bos.			Db	1754	TCCAGCTGCAA-----GAGAAATGAAATGAGTGTGAGCGATGCCA	18.01
AUTHORS	Rinck,G., Birkhan,C., Harada,T., Meyers,G., Thiel,H.J. and Tautz,N.			Qy	422	GAAAAGCATAGGAGTTGAAATGGACGGGAACCTAAAGATGAGTGTGAG	4.81
TITLE	1 (bases 1 to 2402)			Db	1802	GGAAAGCATAGGAGTTGAAATGGACGGGAACCTAAAGATGAGTGTGAG	18.61
JOURNAL	A cellular J-domain protein modulates polyprotein processing and			Qy	482	TGPAATAGCTGATCTGCTGAGAGAGACTTTGGCAGAGTCAAGATGTGGC	5.41
JOURNAL	cytopathogenicity of a pestivirus			Db	1862	TGPAATAGCTGATCTGCTGAGAGTGTGAGCTGAGTGTGGCAGAGTGTGGC	19.21
NEEDLINE	J. Virol. 75 (19), 9470-9482 (2001)			Qy	542	CTCAAGATCACCTACTTTGCACTGATGGATGAAAGGGTGTATGACATCACAGAGTGGGT	6.01
PUBLMED	21424330			Db	1922	CTCAAAATCACCTACTTTGCGTGTGAGATGGATGAAAGGGTGTATGACATCACAGAGTGGGT	19.81
PUBLMED	11533209			Qy	602	GGATGCCAGCCGCTGAGTATCCTCCAGATACCACAGACTCCATCACATCTCATT	6.61
AUTHORS	Rinck,G. and Tautz,N.			Db	1982	GGATGCCAGCGTGTGGGATCTCCCAAGATACCACAGACTCCCTATCACATCTCATT	20.41
TITLE	Direct Submission			Qy	662	GGTTCTCGATTCCGGACCCAGAGGGGGAGAGGACCCCCAGATGCCCTCTCTGCT	7.21
JOURNAL	Submitted (22-FEB-2001) Institut fuer Virologie (FBI0),			Db	2042	GGTTACCGATGCCGGACCCAGTGGGGAGAGTACTCCGATGCCCTCTCTGCT	21.01
JOURNAL	Justus-Liebig-Universitaet Giessen, Frankfurterstrasse 107, Giessen			Qy	722	GATCTCAGGATTCTTGAGTCAGTCTTCAGAATCTTCAGAATCCCCAGGGAGCTGG	7.81
FEATURES	Location/Qualifiers			Db	2102	GACCTCTAGGATTCTTGAGTCAGTCTTCAGAATCCCCAGGGAGCTGG	21.61
SOURCE	1..2402			Qy	782	AACTTCTTGAGCTCTAGCTGCTGAGTCAGTCTTCAGAATCCCCAGGGAGCTGG	8.41
CDSS	/organism="Bos taurus"			Db	2162	AACCTCTTGAGCTCTAGCTGCTGAGTCAGTCTTCAGAATCCCCAGGGAGCTGG	22.21
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CDSS	/db_xref="taxon:9913"			Db	2222	ACGTAACCAAAGGGAAACCGAAAGGGCTCTAAGCCCAACGC	22.81
5' UTR	/codon_start=1			Qy	902	CCTTGATGCCCTTCCTGAGCTGGCTGGCCACTGAGCTGGCTTC	9.57
CDSS	/product="J-domain protein Jiv"			Db	2282	CGTGTGACACCCCTTCCTTCATCAATGTCAGGAGTCAGGCTCTCAA	23.41
5' UTR	/protein_id="AAK28651_1"			Qy	958	CACAGGATGGAGTTGATTAT	9.79
CDSS	/cb_xref="GI:15777195"			Db	2342	CACAGGATGGAGTTGATTGT	23.63
5' UTR	/function="Interacts with nonstructural protein 2 of bovine viral diarrhea virus"			Query Match	72.7%	Score 634; DB 4;	Length 2402;
CDSS	/note="contains putative zinc finger domain"			Best Local Similarity	92.3%	Pred. No. 2e258;	
5' UTR	/codon_start=1			Matches	906;	Matches 0; Mismatches 60;	Gaps 2;
CDSS	/product="J-domain protein Jiv"			DEFINITION	Bos taurus J-domain protein Jiv mRNA, complete cds.		
3' UTR	/cb_xref="GI:15777195"			RESULT	9	AY027881	MAM 25-SEP-2001
3' UTR	/function="use of alternative polyadenylation site results in 3' UTR shorter than the sequence presented in GenBank Accession Number AY027881"			LOCUS	AY027881	mRNA linear	
BASE COUNT	559	a	582	DEFINITION	Bos taurus J-domain protein Jiv mRNA, complete cds.		
ORIGIN	573	t					

Db	271	GGCTTATAAGTACAGTGGCAGGTGATGGTCAATTCCCGGGCTGA	330		/organism="Homo sapiens"
Qy	241	GGAGGCCCTCAAGTTTCGAGGAGCTGGCATTTGTAGCATGCTGAA	300		/mol type="mRNA"
Db	331	GGAGGCCCTCAAGTTTGAGGAGCTGGCATGCTGAA	390	CDS	/db_xref="taxon:9606"
Qy	301	GGATATGAGTGAACGATGGAGAGATGAGGTGAGCTGATGACTTC	360		<1..644 /chromosome="12"
Db	391	GGATATGAGTGAACGATGGAGAGATGAGGTGAGCTGATGACTTC	450		<note="DRIP78; ER-membrane protein; zinc finger motif"
Qy	361	GTCAGCTGCAAGATGACCTCAAGGGAACTGAACTATGATGTCGCA	420		/product="dopamine receptor interacting protein"
Db	451	GTCAGCTGCAAGATGACCTCAAGGGAACTGAACTATGATGTCGCA	510		/protein_id="AAK5241-1"
Qy	421	AGGAAAGCATAGGGTTCAAATGGACCGGAACCTAACAGTCGACAT	480		/translation="WDIVNSAERKKEYEMKRAENELRSYNEFLSKLQDDILKEAMM
Db	511	AGGAAAGCATAGGGTTCAAATGGACCGGAACCTAACAGTCGACAT	570		TMCSCRQGRFENDPESKPSDTHRVPTHISFSRSPGTRQRATPDAPDLODFLS
Qy	481	GTTAATAGCTGATCCCTGAGGAGACTTGGCAGAGTCAGCATGTCG	540		GKVYDITEWAGCORVCSIDPHTHRVPTHISFSRSPGTRQRATPDAPDLODFLS
Db	571	GTTAATAGCTGATCCCTGAGGAGACTTGGCAGAGTCAGCATGTCG	630		IFQVPGQQMNPNFPAAPQPGAAASKPNSTVPKGAEAKPKRKKVTRPQFQ"
Qy	541	CCTCAAGATACCTACTTGCACCTGATGTTGAAAGGTATGACATCACAGTCAGTGGC	600	BASE COUNT	240
Qy	631	CCTCAAGATACCTACTTGCACCTGATGTTGAAAGGTATGACATCACAGTCAGTGGC	690	ORIGIN	a 236 c 246 g 231 t
Db	601	TGATGCCAGCGTGTAGGTATCTCCAGATACCACAGTCCCTATACATCTAT	660	Query Match	75..64
Db	691	TGATGCCAGCGTGTAGGTATCTCCAGATACCACAGTCCCTATACATCTAT	750	Best Local Similarity	99..41
Qy	661	TGGTCTCGATTCCAGGCCACAGGGCCACAGGACATCCCAGATCTGCC	720	Matches	No. 3..1e-269
Db	751	TGGTCTCGATTCCAGGCCACAGGGCCACAGGACATCCCAGATCTGCC	810	Indels	0; Mismatches 3;
Qy	721	TGATCTCGATTCCAGGCCACAGGGCCACAGGACATCCCAGATCTGCC	780	Gaps	1; Gaps 1
Db	811	TGATCTCGATTCCAGGCCACAGGGCCACAGGACATCCCAGATCTGCC	870	Query	264 CAGCTGGACATTTGTCGCAATGCTGAAAGGAAAGGACTGAGTGAATGAACTATGG
Qy	781	GAACTCTTGCAGTCTGAAGCTCCAGCTGGACCCGCTTAAGCCAAACAG	840	Db	1 CAGCTGGACATTTGTCGCAATGCTGAAAGGAAAGGACTGAGTGAATGAACTATGG
Db	871	GAACTCTTGCAGTCTGAAGCTCCAGCTGGACCCGCTTAAGCCAAACAG	930	Qy	324 CAGAGAATGAGCTGAGCTGAGTAAATGAGTTCTGTCGCAAGATGACCTCTCA
Qy	841	CACAGTACCCAAAGGGAGAACCTAACCTAACGGGGGAGAAAGT	885	Db	61 CAGAGAATGAGCTGAGCTGAGTAAATGAGTTCTGTCGCAAGATGACCTCTCA
Db	931	CACAGTACCCAAAGGGAGAACCTAACGGGGAGAAACT	975	Qy	384 AGGAGGCAATGAACTATGATGTCATGATGTCATGATGTCATGAGGTTGAA
Qy				Db	121 AGGAGGCAATGAACTATGATGTCATGATGTCATGATGTCATGAGGTTGAA
Qy				Qy	444 TGGACCGGGAACTTAAGATGCGCAATGCTGAGTGTAAATGGCTGCACTCTGCTG
Qy				Db	181 TGAGCCGGAAACCTAAGTGTAGCTGAGTGTAAATGGCTGCACTCTGCTG
Qy				Qy	504 AGGAGGAGACCTTTGGCAGAGTCAAGCATGTTGGCTCAAGATCACTACTTGAC
Db				Db	241 AGGAGGAGACTTTGGCAGAGTCAAGCATGTTGGCTCAAGATCACTACTTGAC
Qy				Qy	564 TGATGGTGGAAAGGTGTAGCATCACAGTGGCTGAGTGTAGCTATCT
Db				Db	301 TGATGGTGGAAAGGTGTAGCATCACAGTGGCTGAGTGTAGCTATCT
Qy				Qy	624 CCCAGATACTCCACAGTGGCTCCATACATCTCATGGTCTCAGGCCACCA
Db				Db	361 CCCAGATACTCCACAGTGGCTCCATACATCTCATGGTCTCAGGCCACCA
Qy				Qy	684 GAGGGGGAGAGGCCACCCCGATGCCCAATGGCACTCTGCTGATCTCTGAGTC
Db				Db	481 GGATCTTCAAGTACCCCCAGGGCAATGGCAACTCTTCTGCTGATCTCTGAGTC
Qy				Qy	804 CTGCCCTGAGCCGCTGAGCTCTAGCCCAACAGCACAGTACCCAGGCCACCA
Db				Db	421 GAGGGGGAGAGGCCACCCCGATGCCCAATGGCAACTCTTCTGCTGATCTCTGAGTC
Qy				Qy	744 GGATCTTCAAGTACCCCCAGGGCAATGGCAACTCTTCTGCTGATCTCTGAGTC
Db				Db	461 GGATCTTCAAGTACCCCCAGGGCAATGGCAACTCTTCTGCTGATCTCTGAGTC
Qy				Qy	864 AACCTTAAGGGGGAGAACCTGGAGGGCCCTTCAACGTTGATGCCCTTCTTCC
Db				Db	601 AACCTTAAGGGGGAGAACCTGGAGGGCCCTTCAACGTTGATGCCCTTCTTCC
Qy				Qy	924 TCAAAATCAATGTCAGGAGTCAGGAGTCAGGAGTCAGGAGTCAGGAGTC
Db				Db	661 TCAAAATCAATGTCAGGAGTCAGGAGTCAGGAGTCAGGAGTC
Qy				Qy	984 CCTCCCTTAAACCTGGAACTGAACTCTTCTTCTTCTTCTTCTTCTTCTT
Db				Db	721 CCTCCCTTAAACCTGGAACTGAACTCTTCTTCTTCTTCTTCTTCTTCTTCTT

	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
QY 241	GGAGGCCTCAAGGTTGGCAGAGCTTGGACATTGCAATGCTGAAGCGAAA	Homo sapiens (human)					
Db 117982	GGAGGCCTCAAGGTTGGCAGAGCTTGGACATTGCAATGCTGAAGCGAAA	Homo sapiens					
QY 301	GGAGTAGATGAGAACGAACTGGAGAATGAGCTGAGCCGTAGTAAATGAGTTCT	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1818)					
Db 118042	GGAAATATGAGATGAAAGGACGGAGAACTAGTGAGGGTAGTAATGAGTTCT	Straubenberg, R.					
Db 361	GTCAGAAGCTGCAAAGATGAACTCTCAAGGAGGAATGATACTATGATGTCAGGCCATGCCA	Submitted (05-NOV-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA	NIH-MGC Project URL: <a href="http://mgc.nci.nih.gov">http://mgc.nci.nih.gov</a>				
Db 118102	GTCAGAAGCTGAAAGATGAACTCTCAAGGAGGAATGATACTCTGATGTTGGCCATGCCA	Contact: MGC help desk Email: cgabbs@mail.nih.gov					
QY 421	AGGAAGCATAGGAGGTTAAATGGACCGGAACCTAACAGTGGCAGATACTGTGCTGA	Tissue Procurement: ATCC					
Db 118162	AGGAAGCATAGGAGGTTAGGAGCTTCAAGGGACCACTAACAGTGGCAGATACTGTGCTGA	CDNA Library Preparation: Life Technologies, Inc.					
QY 481	GTTGATAGGCTGATCCCTGAGGAAAGACTTTGGCAGAGCTAACAGCTGGGG	DNA Sequencing by: The I.M.A.G.E. Consortium (LILN)					
Db 118222	GTCGATAGGCTGTCCTGAGGAACTAACAGTGGCAGATACTGTGCTGA	Center, Stanford University School of Medicine, Stanford, CA 94305					
QY 541	CCTCAAGATGAACTTCAACTTGACATGATGGATGAAAGGTGTATGACATCACAGATGGCC	Web site: <a href="http://www-sbc.stanford.edu">http://www-sbc.stanford.edu</a>					
Db 118282	CCTCAAGATGAACTTCAACTTGACATGATGGATGAAAGGTGTATGACATCACAGATGGCC	Contact: (Dickson, Mark) mcdgaxii.stanford.edu					
QY 601	TGGATGCCAACGGTGTAGGATCTCCAGATAACCAAGATCCATACATCTCAT	Dickson, M., Schmutz, J., Rodriquez, A., and Myers, R. M.					
Db 118342	TGGGGCCAGGGCTCTAGATATCTCCCAGACCCACAGAGCTCTCTCAT	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LILN at: <a href="http://image.liln.gov">http://image.liln.gov</a>					
QY 661	TGGTCTCTGGATTCCGGACCAGAGGGCCAGAGGCCACCCAGATGCCCTCCCTC	Series: IRAK Plate: 20 Row: 13					
Db 118401	TGGTCTCTGGATTCCGGACCAGAGGGCCAGAGGCCACCCAGATGCCCTCCCTC	This clone was selected for full length sequencing because it passed the following selection criteria: Similarity but not identity to protein in Location/Qualifiers					
QY 721	TGATCTTCAGGATTCTCTGAGTCGATCTTCAGTACCTCCAGGGAGATCCAATG	1..1818					
Db 118461	TGATCTTCGGATTCTCTGAGTCGATCTTCAGTACCTCCAGGGAGCTCTC	/organism="Homo sapiens"					
QY 781	GAACCTCTTGAGTCGCTAGCTCCCTGAGCCCTCTAACGCCAACAG	/mol type="mRNA"					
Db 118521	GAACCTCTTGAGCTCTAGCTGCCCTGGAGCCCATGTGAGCTAACACCG	/db_xref="Taxon:9606"					
QY 841	CACAGTACCCAAGGGAGGCCAACCTAACGCGCGGGAGGGCCCTCCA	/clone_id="MGC_21452"					
Db 118581	CACAGTACCCAAGGGAGAACGAAACGAGAACGAGGAGGGCCCTCCA	/translation="MGRMARNELSRVSNEFLSKLODDLEKAMNTNMCSRCGKHRFEMDREPSARVCAECNLHRAPEEGDWAESSMLGLKITYFALMDGVYDTEWAGQRVGISPDTHRVPHISGSRPGTGRQRQATAPPDLQELSRTIOPQPCQPMNFF					
QY 901	ACGTTG-ATGCCCTTCCTCTTCTCAAATCAATGTCAGGGAGTCAGGGGTGT--	AAPODAPGAAASKENSTPKGEAKPLKQCLAEKQCLARLGKTFQDLHRLQ					
Db 118641	ACGTTGAAAGCCCCCTTCCTTCTCAAACAAATGTCGCACTGGAGGACTGTAC	AYLEEHAEANEEDVLGDETEETKPELPKEBEPKTVDAEAKVKVKTSEI					
QY 956	AGCAACAGGATGGAGATTGATTATCCCTCTCCCCAACCTTGAAGCTGTATCTT	PQTERMQKRAKERNPVSLESKVYKAARFGISSVPKGUSSDKPMVNLDKUCERAQ					
Db 118701	AGGCCGGATGGAGTTCACTCCCTCTCCCCAACCTTGAAGCTGTATCTT	RPGUNVSSRSKSEDEDEKKRKERFQFTISSAGTGTIDTEANKRKRAERFGIA"					
QY 1016	CCTTTTATTTTGAGATGGAGCTTGTGCTCTGTGCTGCTGCTGCTGCTGAT	401..1570					
Db 118761	-TTTTTTTTTGTAGAGAGAGCTGCTGCTGCTGCTGCTGCTGAT	/codon_start=1					
QY 1076	CTCAGCTTACTGAACTCTGTCCTCCGGTCAAGCAATTCTCCATCTCGCTGTC	/product="Unknown (protein for MGC_21452)"					
Db 118820	CTTGGTTTACTGAAACCTTGTCCTCCGGTCAAGCAATTCTCCATCTCGCTGTC	/protein_id="AAH16941.1"					
QY 1136	AGTAGCTGGAT 1147	/db_xref="GI:16877384"					
Db 118880	AGTAGCTGGAT 118891	/tissue_type="Placenta, choriocarcinoma"					
QY 181	GGCCCTATAGAGCTGGCAGTGTGATGTTCACTCTGACAAATACTCATCC	/clone_id="NIH_MGC_10"					
Db 151	CTGCCAGCCCTGAAGAGGAAGTGGCTGACTCTGACATGCTGGGTTCTGAGATGA	/lab_host="DH10B"					
QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/note="vector: pCMV-SPORT6"					
Db 151	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	401..1570					
QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/product="Unknown (protein for MGC_21452)"					
Db 151	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/protein_id="AAH16941.1"					
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QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/tissue_type="Placenta, choriocarcinoma"					
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QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/tissue_type="Placenta, choriocarcinoma"					
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QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/tissue_type="Placenta, choriocarcinoma"					
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QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/tissue_type="Placenta, choriocarcinoma"					
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QY 181	GCTAAACCCTTCCATGACTCTGGCCACAGCATGAGTTGAGATGAA	/note="vector: pCMV-SPORT6"					
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Qy	121	GCTAAACCCTTCCATGTAATGGGCCACAGGATCAGTTGAAGAA	180						
Db	1415	GCTAAACCCTTCCATGTAATGGGCCACAGGATCAGTTGAAGAA	1474	AC129837	190201 bp	DNA linear	HTG 11-JUN-2003		
Qy	181	GGCCTATAGAACAGCTGGCACTGGTTCATCTGCACAGATCGATG	240	AC129837	Papi anubis clone rp41-88j2	WORKING DRAFT	SEQUENCE.		
Db	1475	GGCCTATAGAACAGCTGGCACTGGTTCATCTGCACAGATCGATG	1534	AC129837	16 GI:3075963				
Qy	241	GGAGGCCTCAAGGTTTCGAGCTGGACATTGTCAAGAAATGCTGA	300	AC129837	HTGS PHASED; HTGS DRAFT.				
Db	1535	GGAGGCCTCAAGGTTTCGAGCTGGACATTGTCAAGAAATGCTGA	1594	Db	Papi anubis (olive baboon)				
Qy	301	GGAGTAGATGAAAGGATGGAGATACTGCTACCGGTAGTAAATGAG	360	Db	Papi anubis BAC Clone rp41-88j2				
Db	1595	GGAGTAGATGAAAGGATGGAGATACTGCTACCGGTAGTAAATGAG	1654	Organism	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae; Cercopithecinae; Papio.				
Qy	361	GTCCAAGCTCAAAGATGACCTCAAGGGCCAATGAATACTATGATG	420	REFERENCE	1 (bases 1 to 190201)				
Db	1655	GTCCAAGCTCAAAGATGACCTCAAGGGCCAATGAATACTATGATG	1714	AUTHORS	Prescott, A., Shaikh, T. and Roe, B.A.				
Qy	421	AGGAAGGCTAGAGGGTTGAATGAGTGGCCAGATACTGTGCTGA	480	JOURNAL	Submitted (03-AUG-2002) Department Of Chemistry And Biochemistry, The University Of Oklahoma, 620 Parrington Oval, Room 208, Norman, OK 73019, USA				
Db	1715	AGGAAGGCTAGAGGGTTGAATGAGTGGCCAGATACTGTGCTGA	1774	REFERENCE	2 (bases 1 to 190201)				
Qy	481	GTGTAATAGGCTGATCCGAGCTGGAGAGTCAAGCATGTTGG	540	AUTHORS	Prescott, A., Shaikh, T. and Roe, B.A.				
Db	1775	GTGTAATAGGCTGATCCGAGCTGGAGAGTCAAGCATGTTGG	1834	JOURNAL	Direct Submission				
Qy	541	CCTAAAGATCACCTACTTGCACTGTGATGGAAAGGTGATGACA	600	COMMENT	Submitted (11-JUN-2003) Department Of Chemistry And Biochemistry, The University Of Oklahoma, 620 Parrington Oval, Room 208, Norman, OK 73019, USA				
Db	1835	CCTAAAGATCACCTACTTGCACTGTGATGGAAAGGTGATGACA	1894	COMMENT	On May 15, 2003 this sequence version replaced gi:30698658.				
Qy	601	TGGATGCCGCGCTGTAGGTATCTGATGCTCCATCATCTCAT	660	COMMENT	----- Genome Center				
Db	1895	TGGATGCCGCGCTGTAGGTATCTGATGCTCCATCATCTCAT	1954	Db	Department Of Chemistry And Biochemistry				
Qy	661	TGGTTCTCGGATTCCAGGACCAGAGGGCCAGAGGCCACCCCCA	720	Db	The University Of Oklahoma				
Db	1955	TGGTTCTCGGATTCCAGGACCAGAGGGCCAGAGGCCACCCCCA	2014	Db	Center code:OKNOR				
Qy	721	TGATCTTCGGATTCTCTAGTCGGATCTTCAGTACCCCAGATGCCA	780	FEATURES	----- Location/Qualifiers				
Db	2015	TGATCTTCGGATTCTCTAGTCGGATCTTCAGTACCCCAGATGCCA	2074	source	1. 190201 /organism="Papiro anubis"				
Qy	781	GAACCTCTTGAGCTCCAGCTGGCCCTGAGCCCTTAAGCCAAAG	840		/mol type="genomic DNA"				
Db	2075	GAACCTCTTGAGCTCCAGCTGGCCCTGAGCCCTTAAGCCAAAG	2134		/db_xref="taxon:9555"				
Qy	901	ACGTGTGATGCCCTTCTCTCAAACTCAAACTGAGTCAGGAGTC	960	Qy	1 190201 /clone lib="RPCI - 41 Male (Olive) Baboon BAC Library"				
Db	2195	ACGTGTGATGCCCTTCTCTCAAACTCAAACTGAGTCAGGAGTC	2254	BASE COUNT	46020 a 50800 c 49199 g 44180 t 2 others				
Qy	961	AGATGGAGTTGATTCTCCATTCTCCATTCTCCATTCTCCATT	1020	ORIGIN					
Db	2255	AGATGGAGTTGATTCTCCATTCTCCATTCTCCATTCTCCATT	2314	Query Match	84.0%	Score 963.6;	DB 2;	Length 190201;	
Qy	1021	TATTTTGTAGATGGAGTCCTGCTGCTGCTGCTGAGTCTGATCTG	1080	Best Local Similarity	92.1%	Pred. No. 2, 9e-300;			
Db	2315	TATTTTGTAGATGGAGTCCTGCTGCTGCTGAGTCTGATCTG	2374	Matches 1061;	Conservative 0;	Mismatches 84;	Indels 7; Gaps 4;		
Qy	1081	CCTACTGAACTCTGTCCTCCGGTTAACGCAATTCTCAAGCTCT	1140	Db	117742 CGCCAGCCTGAAAGGAAGTGGCTCACTCTGACATGGCTGGGTTCCTGAGGATGA 117801				
Db	2375	CCTACTGAACTCTGTCCTCCGGTTAACGCAATTCTCAAGCTCT	2434	Qy	61 CGCCAGCCTGAAAGGAAGTGGCTCACTCTGACATGGCTGGGTTCCTGAGGATGA 120				
Qy	1141	CTGGGAT 1147		Db	117802 CGCCAGCCTGAAAGGAAGTGGCTCACTCTGACATGGCTGGGTTCCTGAGGATGA 117861				
Db	2435	CTGGGAT 2441		Qy	121 GTAAAGCCCTTCCATTCTGAGCTGAGTGTGAACTGAGAA 180				
Db	117922	GGCTCTATAGACAGCTGGCACTGTCATGGTCATCCGGGCTGA	240	Db	117922 GTAAACCTTCCATTCTGAGCTGAGTGTGAACTGAGAA 117921				



Qy	301.	GGAGTATGGATGAAACGGAATGGCAGAGATGAGCTGACCGGGTCAGTAATGAGTTCT	360		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
Db	745	GGAGTATGGATGAAACGGAATGGCAGAGATGAGCTGACCGGGTCAGTAATGAGTTCT	804	REFERENCE AUTHORS	Tashiro, H., Yamazaki, M., Watanabe, K., Kumagai, A., Itakura, S., Fukuzumi, Y., Fujimori, Y., Koniyama, M., Sugiyama, T., Irie, R., Otsuki, T., Satoh, Y., Wakanamoto, O., Ishii, S., Yamamoto, J., Isono, Y., Kawai, Hio, Y., Saito, K., Nishikawa, T., Kimura, K., Yamashita, H., Matsuo, K., Nakamura, Y., Sekine, M., Kikuchi, H., Kanda, K., Nagatsuma, M., Murakawa, Y., Kanehori, K., Takahashi, Fujii, A., Oshima, A., Sugiyama, A., Kawakami, B., Suzuki, Y., Sugano, S., Nagamari, K., Masuho, Y., Nagai, K. and Isogai, T.
Db	865	RGGAAAGCTTAGGGGTGTTGAATGGACGGGAACCTAGTGCCAGATCTGTGCA	480	TITLE	NEBUD human cDNA sequencing project
Qy	481.	GTTGAAATAGGCTGATCCGTGAGGAAGGACTTTCCGGACAGTCAGCATGTTGG	540	JOURNAL	Unpublished
Db	925	GTTGAAATAGGCTGATCCGTGAGGAAGGACTTTGGAGATGTTGG	984	REFERENCE AUTHORS	2 (bases 1 to 2343)
Db				TITLE	Isogai, T., Otsuki, T. and Sugiyama, T.
Qy	541.	CCTCAANGATCACCTACTTGCACATGGATGAAAGGAGCTTCCGAGACTGTCAG	600	JOURNAL	Submitted (24-OCT-2001) Takao Isogai, Helix Research Institute, Genomics Laboratory, 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan (E-mail: genomics@hri.co.jp), Tel: 81-438-52-3975, Fax: 81-438-52-3986)
Db	985	CCTCAAGATCACCTACTTGCACATGGATGAAAGGTTGATGACATCACAGATGTCG	1044	COMMENT	NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5' - & 3'-end one pass sequencing: RAB, HRI, and Biotechnology Center, National Institute of Technology and Evaluation; clone selection for full insert sequencing: RAB and HRI.
				FEATURES	Location/Qualifiers
				source	1. .2343
					/organism="Homo sapiens"
					/mol_type="mRNA"
					/db_xref="taxon:9606"
					/clone="NHNPC2000206"
					/cell_type="normal neural progenitor cells" (NHNPC2)
					/clone_id="NHNPC2"
					/note="cloning vector: pME18SFL3-primer culture, normal neural progenitor cells"
					113 . .1351
					/note="unnamed protein product"
					/codon_start=1
					/protein_id="BAB71050_1"
					/db_xref="GI:16550798"
					/translation="MCAWYTRGLGGWAQWMFOPLSGFCFGVGLFTRFLKLIGALLLLA
					LALFLGFLQIGWRFLVGLDGLNDKATWIFSWLSDSPALORCLTLRDSLSPWQLRLR
					IYQWGMLELPWKONINROGNAAVASGRYCOPEEEVARLTIMAGYPEDELNPFHVLGV
					BATASDVEILKAYRQLAVWYHDPRAEAFKYLRAANDVSNAAKRKEYEMRKLH
					AENELRSRNVEFLSLQDIDKEANNTMMCSRQGHFRFENDPESARYCAECMRHL
					PAEEGDNWAEBSMLQIKITVYFALMGKVYDTEWGCQRYGISPDTHRVPHSFSR
					IPGTRQRQATDAPPADQFLSRIFQVPPQMENGNNFAAPQPAGAAAASKPNT
					VPKGAKPKRKVKRPQR"
				BASE COUNT	547 a 527 c 633 g 636 t
				ORIGIN	
				Query Match	100.0%
				Best Local Similarity	100.0%
				Mismatches	0;
				Indels	0;
				Gaps	0;
Qy	1	GCCTTGGTCAGCAGAAATTAAAGCAGGGAAATGCAATGAGCTGAGCTGAGTCA	60		
Db	445	GCCTTGGTCAGCAGAAATTAAAGCAGGGAAATGCAATGAGCTGAGCTGAGTCA	504		
Qy	61	CTGCCAGCCTGAGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGTCA	120		
Db	505	CTGCCAGCCTGAGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGTCA	564		
RESULT 3					
AK055945	2343 bp	mRNA	Linear	PRI 01-AUG-2002	
LOCUS					
DEFINITION					
Homo sapiens cDNA FLJ31383					
Fis, clone NHNPC2000206, highly similar to Bovine viral diarrhea virus type 2 strain BDV2-SD1630c polyprotein gene.					
ACCESSION					
AK055945.1					
VERSION					
KEYWORDS					
Oligo capping; Fis (full insert sequence).					
SOURCE					
Homo sapiens (human)					
ORGANISM					
Homo sapiens					

FEATURES source	Query Match Score 1147; DB 6; Best Local Similarity 100.0%; Pred. No. 0; Matches 1147; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Qy 901 ACGTGATGCCCTTCTTCCAAATCAATGTCAGGGACTCAAAGGCTGTAGCAC 960 Db 901 ACGTGAATGCCCTTCTTCCAAATCAATGTCAGGGACTCAAAGGCTGTAGCAC 960
/organism="Homo sapiens" /mol_type="Genomic DNA" /db_xref="Traxon:9600" /note="Incyte ID No: 1459372CBI"		Qy 961 AGCATGGAGTTGATTAATGCCCTTCTTCCAAACCTTACGAACTTCAAGTCAAACTGAGCT 1024 Db 961 AGCATGGAGTTGATTAATGCCCTTCTTCCAAACCTTACGAACTTCAAGTCAAACTGAGCT 1024
BASE COUNT ORIGIN	287 a 314 g 269 t	Qy 1021 TATTTTTGATGAGTGAAGTCTGTTGCCAACGCTGGAGTGGTGCATCTCGAG 1084 Db 1021 TATTTTGAGATGGAGTCTGTTGCCAGCTGGTGAATGCTAGTAGTAG 1144
Query Match Score 1147; DB 6; Best Local Similarity 100.0%; Pred. No. 0; Matches 1147; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		Qy 1081 CTTACTGAAACCTCTGTCCTCCGGTTCAAGCAATTCTCCCATCTCAGCTCCCTAGTAG 1144 Db 1081 CTTACTGAAACCTCTGTCCTCCGGTTCAAGCAATTCTCCCATCTCAGCTCCCTAGTAG 1144
Qy 61 CTGCCAGGCTTAAGAGGAATGGCTCAACTCTGACCATTGGGGTTCTGAGGATGA 120 Db 61 CTGCCAGGCTTAAGAGGAATGGCTCAACTCTGACCATTGGGGTTCTGAGGATGA 120	Qy 1141 CTGGAT 1147 Db 1141 CTGGAT 1147	Qy 1141 CTGGAT 1147 Db 1141 CTGGAT 1147
Qy 121 GCTAAACCCCTTCCATGTACTGGGTTGAGGCCACGATCAGATGTTGAACTGAGAA 180 Db 121 GCTAAACCCCTTCCATGTACTGGGTTGAGGCCACGATCAGATGTTGAACTGAGAA 180	RESULT 2	AX713973 2343 bp DNA linear PAT 15-APR-2003
Qy 181 GGCTPATAGAAGCTGGCAGTGGTCACTCTGCAAAATACTCATCCCCGGGTGA 240 Db 181 GGCTPATAGAAGCTGGCAGTGGTCACTCTGCAAAATACTCATCCCCGGGTGA 240	LOCUS AX713973 from Patent EP1293569.	Organism Homo sapiens (human)
Qy 241 GGAGGCTTCAAGGTTTGGAGCAGCTGGGACATTGTCAAGCAATTGCTGAAAAGGCAA 300 Db 241 GGAGGCTTCAAGGTTTGGAGCAGCTGGGACATTGTCAAGCAATTGCTGAAAAGGCAA 300	DEFINITION Sequence 657 from Patent EP1293569.	Organism Homo sapiens
Qy 301 GGAGPATGAGTAAACCAAGCTGGCAGAATGAGCTGAGCTGAGTAAATGAGTTCT 360 Db 301 GGAGPATGAGTAAACCAAGCTGGCAGAATGAGCTGAGCTGAGTAAATGAGTTCT 360	VERSION AX713973	Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Qy 361 GTCCAAGCTGCAAGATGACCTCAAGAGGCAATGAACTATGATGTGAGCGATGCCA 420 Db 361 GTCCAAGCTGCAAGATGACCTCAAGAGGCAATGAACTATGATGTGAGCGATGCCA 420	REFERENCE AX713973.1 GI:29888901	Author Isogai,T., Sugiyama,T., Otsuki,T., Wakamatsu,A., Sato,H., Ishii,S., Yamamoto,J.I., Isomoto,Y., Hio,Y., Orsuka,K., Nagai,K., Irie,R., Tamechika,I., Seki,N., Yoshikawa,T., Otsuka,M., Nagahari,K. and Masuho,Y.
Qy 421 AGAAAGCATAGGAGTTGAATGGACCCGAACTTAAGGTGGCATATGCTGAG 480 Db 421 AGAAAGCATAGGAGTTGAATGGACCCGAACTTAAGGTGGCATATGCTGAG 480	TITLE JOURNAL	Title Full length cDNAs Patent: EP 1293569-A 657 19-MAR-2003; Helix Research Institute (JP); Research Association for Biotechnology (JP)
Qy 481 GTGTATAGGCTGCATCCTGCTGAGAAGGAGACTTTGGCAGACTCAACCATGTC 540 Db 481 GTGTATAGGCTGCATCCTGCTGAGAAGGAGACTTTGGCAGACTCAACCATGTC 540	FEATURES source	Location/Qualifiers 1..2343
Qy 541 CCTCAAGATACCTACTGCACTGATGGATGGAAGGTGATGACATCACAGAGTGGC 600 Db 541 CCTCAAGATACCTACTGCACTGATGGATGGAAGGTGATGACATCACAGAGTGGC 600	organism="Homo sapiens"	Organism Homo sapiens
Qy 601 TGGATGCCACCGTGTAGGTATCTCCAGATACTTCCAGATCCAGGTCATCTCAT 660 Db 601 TGGATGCCACCGTGTAGGTATCTCCAGATACTTCCAGATCCAGGTCATCTCAT 660	/mol type="genomic DNA"	Molecule type genomic DNA
Qy 661 TGGTTCTCGGATTCCAGGCCACCAAGGCTGAGGCAAGCTGGCCATGGCTGGCT 720 Db 661 TGGTTCTCGGATTCCAGGCCACCAAGGCTGAGGCAAGCTGGCCATGGCTGGCT 720	/db_xref="Traxon:9600"	DBXREF Traxon:9600
Qy 721 TGATCTTCAAGATTTCTGGTCACTCTTCAAGTCAACTACCCCAAGGCAATGG 780 Db 721 TGATCTTCAAGATTTCTGGTCACTCTTCAAGTCAACTACCCCAAGGCAATGG 780	BASE COUNT 547 a -527 c 633 g 636 t	Origin
Qy 781 GAACTCTTGCAGCTCCAGCTGGCTGAGGCTCTAAGCCAAACAG 840 Db 781 GAACTCTTGCAGCTCCAGCTGGCTGAGGCTCTAAGCCAAACAG 840	Query Match Score 1147; Best Local Similarity 100.0%; Matches 1147; Conservation 0; Indels 0; Gaps 0;	Query Match Score 1147; Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;
Qy 841 CACAGTACCAAGGGAGGCAACCTAGGGGCAAGAACAAAGTGGAGGCCCTTCCA 900 Db 841 CACAGTACCAAGGGAGGCAACCTAGGGGCAAGAACAAAGTGGAGGCCCTTCCA 900	Qy 1 GCCTGGTCAAGCAAGATAATTAAATGGCAGGGAAATGCACTGTTGAGGATGCA 60 Db 445 GCCTGGTCAAGCAAGATAATTAAATGGCAGGGAAATGCACTGTTGAGGATGCA 504	Qy 61 CTGCCACCTCTTCCATGTTGAGGCCACAGCATGATGTTGAACCTGAA 180 Db 505 CTGCCACCTCTGAGGAAAGTGGCTCAACTCTGACCATGGTGGGTTCTGAGGATGCA 564
Qy 841 CACAGTACCAAGGGAGGCAACCTAGGGGCAAGAACAAAGTGGAGGCCCTTCCA 900 Db 841 CACAGTACCAAGGGAGGCAACCTAGGGGCAAGAACAAAGTGGAGGCCCTTCCA 900	Qy 121 GCTAAACCCCTTCCATGTTGAGGCCACAGCATGATGTTGAACCTGAA 180 Db 565 GCTAAACCCCTTCCATGTTGAGGCCACAGCATGATGTTGAACCTGAA 180	Qy 181 GGCCTATAGACAGCTGCCAGTGGTCACTCTGAAATACTCTCCGGGTGCA 240 Db 625 GGCCTATAGACAGCTGCCAGTGGTCACTCTGAAATACTCTCCGGGTGCA 240
Qy 941 CGAGCTCTTGCAGCTCCAGCTGGCTGAGGCTCTAAGCCAAACAG 900 Db 941 CGAGCTCTTGCAGCTCCAGCTGGCTGAGGCTCTAAGCCAAACAG 900	Qy 241 GGAGGCCCTTCAAGGTTTGCAGCTGCCAGTGGTCACTCTGAAATACTCTCCGGGTGCA 300 Db 685 GGAGGCCCTTCAAGGTTTGCAGCTGCCAGTGGTCACTCTGAAATACTCTCCGGGTGCA 744	Qy 241 GGAGGCCCTTCAAGGTTTGCAGCTGCCAGTGGTCACTCTGAAATACTCTCCGGGTGCA 300 Db 685 GGAGGCCCTTCAAGGTTTGCAGCTGCCAGTGGTCACTCTGAAATACTCTCCGGGTGCA 744

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score greater than or equal to the score of the result being printed,  
 and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Match Length	DB ID	Description
1	1147	100.0	1147	6	AX081438 Sequence AX713973 Sequence AK055945 Homo sapi BC050271 Homo sapi
2	1147	100.0	2343	6	AX713973 Sequence AK055945 Homo sapi BC050271 Homo sapi
3	1147	100.0	2343	9	AK055945 Homo sapi BC050271 Homo sapi
4	1147	100.0	4274	9	BC050271 Homo sapi
5	963.6	84.0	190201	2	AC128877 Homo sapi
6	883.4	77.0	1818	9	BC016941 Homo sapi
7	867.2	75.6	953	9	AP351784 Homo sapi
8	834	72.7	2402	4	AY027882 Bos tauru
9	834	72.7	3159	4	AY027881 Bos tauru
10	824	71.8	2692	4	AF308815 Bos tauru
11	793.6	69.2	2402	10	BC011446 Mus muscu
12	781.8	68.2	2392	10	AF351783 Rattus no
c	13	765.8	66.8	263371	2 AC098454 Rattus no AF141342 Homo sapi
c	14	743	64.8	754	9 AF141342 Homo sapi
c	15	661.2	57.6	247309	2 AC097837 Rattus no AC097837 Rattus no
c	16	628.2	54.8	747	6 BD020639 Novel gene
c	17	628.2	54.8	747	6 BD10577 Novel gene
c	18	453	39.5	118052	9 AC021055 Homo sapi
c	19	400.8	34.9	1253	14 AF268178 Bovine vi
c	20	399	34.8	1258	14 AF268176 Bovine vi
c	21	360.2	31.4	255930	2 AC123227 Rattus no
c	22	354.2	30.9	198493	2 AC112674 Mus muscu
c	23	354.2	30.9	250277	2 AC122757 Mus muscu
c	24	352.8	30.8	1004	14 AF268171 Bovine vi
c	25	352.8	30.8	1233	14 AF268172 Bovine vi
c	26	337.2	29.4	927	14 BD043603 Border disease
c	27	303.6	26.5	873	14 BD143602 Border disease
c	28	298.6	26.0	194221	10 AC113998 Mus muscu
c	29	297	25.9	717	14 BV0125IN1
c	30	294.6	25.7	1229	14 AF268180 Bovine vi
c	31	294.5	25.7	13196	14 AB078951 Bovine vi
c	32	294.6	25.7	13203	14 AB078952 Bovine vi
c	33	285.2	24.9	752	14 AF268177 Bovine vi
c	34	279.6	24.4	194221	10 AC113998 Mus muscu
c	35	278.6	24.3	852	14 AF268179 Bovine vi
c	36	272.8	23.8	12602	14 AF144617 Pestivirus
c	37	251.4	21.9	12119	6 AX057315 Sequence
c	38	251.4	21.9	12573	14 BVDCG M31182
c	39	251.4	21.9	12578	14 BV1133738 Bovine vi
c	40	251.4	21.9	12734	6 AR179057 Sequence
c	41	251.4	21.9	12734	6 AR179057 Sequence
c	42	251.4	21.9	14078	6 AR133006 Sequence
c	43	251.4	21.9	14078	6 AR2144645 Sequence
c	44	251.4	21.9	14078	6 AR2144645 Sequence
c	45	251.2	21.9	1114	14 AF268175 Bovine vi

## ALIGNMENTS

RESULT 1	AX081436	Homo sapiens (human)
ORGANISM	Homo sapiens	
LOCUS	AX081438	Sequence 22 from Patent WO0103178.
DEFINITION	AX081438	
ACCESSION	AX081438	
VERSION	AX081438.1	GI:13170261
KEYWORDS		
SOURCE		
REFERENCE		
AUTHORS		
TITLE		
JOURNAL		

Pred. No. is the number of results predicted by chance to have a

Pred. No. is the number of results predicted by chance to have a

Query Match Score 251.4; DB 21; Length 12842;  
 Best Local Similarity 94.2%; Pred. No. 3.3e-66;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;  
 CC used in a vaccine against BVDV.

XX Sequence 13198 BP; 3735 A; 3097 C; 3533 G; 2833 T; 0 other;

Query Match Score 251.4; DB 21; Length 13198;  
 Best Local Similarity 94.2%; Pred. No. 3.3e-66;  
 Matches 261; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 404 ATGTGTAGCCATGCCAAAGGAAAGCATAGGGTTGAAATGGACCGGAAACCTAAGAGT 463  
 Db 4962 ATGTGCACCGATGCCAGGAAGCATAGGGTTGAAATGGACCGGAAACCTAAGAGT 5021

Qy 464 GCCAGATACTTGCTGGTGTAACTGGCTGATCCCGCTGGAAAGGAACTTGGCA 523  
 Db 5022 GCCAGATACTTGCTGGTGTAACTGGCTGATCCCGCTGGAAAGTGAACCTTGGCA 5081

Qy 524 GAGTCAGCATGTTGGCCTAAGATAACCTACTTGCTGATGGATTGAAAGGTGTAT 583  
 Db 5082 GAGTCAGCATGTTGGCCTAAGATAACCTACTTGCTGATGGATTGAAAGGTGTAT 5141

Qy 584 GACATCACAGACTGGGTTGGATGGCCAGATACCCACAGTC 643  
 Db 5142 GATATCACAGACTGGGTTGGATGGCCAGATACCCACAGTC 5201

Qy 644 CCCTATCACATCTCATTTGGTCTCAGGATCCACAGAGTC 680  
 Db 5202 CCTTGTCACATCTCATTTGGTCTCAGGATCCACAGAGTC 5238

RESULt 15  
 AAZ36211 standard; DNA; 13198 BP.  
 XX AC AAZ36211;  
 DT 11-FEB-2000 (first entry)

DE Nucleotide sequence of functional HCV-BVDV chimera from pCBV/p7/IRES-pac.

XX Pseudorevertant; RNA virus; chimera; BVDV; HCV; replication-competent;  
 XX 5' nontranslated region; 5' NTR; 3' NTR; Pestivirus; antiviral;  
 XX bovine viral diarrhea virus; NADL; vaccine; ss.

XX Chimeric - Hepatitis C virus.

OS Chimeric - Bovine viral diarrhea virus.

XX PN WO995366-A1.

XX PD 04-NOV-1999.

XX PF 23-APR-1999; 99WO-US08850.

XX PR 24-APR-1998; 98US-0082964.

XX PA (UNIW ) UNIV WASHINGTON.

PI Rice CM, Frolov I, McBride MS;  
 XX DR WPI: 2000-013359/01.

PT Chimeric viral RNA, used in vaccine against BVDV -

XX Example 3; Fig 24; 108pp; English.

CC The present sequence represents a functional Hepatitis C virus  
 CC (HCV)-bovine viral diarrhea virus (BVDV) chimeric virus of the  
 CC invention, expressing a dominant selectable marker conferring resistance  
 CC to puromycin. The specification describes chimeric viral RNA comprising  
 CC a 5' nontranslated region (5'NTR); an open reading frame (ORF) region;  
 CC and a 3' NTR; where at least one of the regions is chimeric and  
 CC comprises a nucleotide sequence from a pestivirus in operable linkage  
 CC with a heterologous nucleotide sequence, preferably from HCV. The  
 CC chimeric viral RNA is replication-competent. The chimeric viral RNA  
 CC can be used in a method for identifying compounds having antiviral  
 CC activity against HCV. When the pestivirus viral nucleotide sequence is  
 CC from bovine viral diarrhea virus (BVDV), the chimeric viral RNA can be

Search completed: December 1, 2003, 07:37:13  
 Job time : 384 secs

644 CCCTATCACATCTCATTTGGTCTCAGGATTCAGGCA 680  
 Db 4209 GAGTCAGCATGTTGGCCCTCAAATCACCTACTTGGCCTGATGATGAAAGGTGTAT 4268  
 Qy 584 GACATCACAGACTGGGCTGGATGGCAGCTGATCCACAGAGTC 643  
 Db 4269 GATATCACAGACTGGGCTGGATGGCAGCTGATCCACAGAGTC 4328

644 CCCTATCACATCTCATTTGGTCTCAGGATTCAGGCA 680  
 Db 4329 CCTTGTCACATCTCATTTGGTCTCAGGATTCAGGATTC 4365

Qy	404	ATGTGTAAGCCGATGCCAAGGAAGCCTAGGGTTGAATGGACCGGAACTTAGGT	463	Qy	404	ATGTGTAAGCCGATGCCAAGGAAGCCTAGGGTTGAATGGACCGGAACTTAGGT	463
Db	4994	ATGTGCAAGCCCAGGCCATGCCAAGGAAGCCTAGGGTTGAATGGACCGGAACTTAGGT	5053	Db	5150	ATGTGCAAGCCCAGGCCATGCCAAGGAAGCCTAGGGTTGAATGGACCGGAACTTAGGT	5209
Qy	464	GCCAGATACTGRCGTCGAGTGTAACTGGCTGAGGAACGACTTTCGGCA	523	Qy	464	GCCAGATACTGRCGTCGAGTGTAACTGGCTGAGGAACGACTTTCGGCA	523
Db	5054	GCCAGATACTGRCGTCGAGTGTAACTGGCTGAGGAACGACTTTCGGCA	523	Db	5210	GCCAGATACTGRCGTCGAGTGTAACTGGCTGAGGAACGACTTTCGGCA	5269
Qy	524	GAGTCAGCATGTTGGCCTCAAGATCACCTACTTGCAGTGTGGATGAAAGGTGTAT	583	Qy	524	GAGTCAGCATGTTGGCCTCAAGATCACCTACTTGCAGTGTGGATGAAAGGTGTAT	583
Db	5114	GAGTCAGCATGTTGGCCTCAAGATCACCTACTTGCAGTGTGGATGAAAGGTGTAT	5173	Db	5270	GAGTCAGCATGTTGGCCTCAAGATCACCTACTTGCAGTGTGGATGAAAGGTGTAT	5329
Qy	584	GACATCACAGTGCTGGCTGATGCCAGTCTCCAGATACCCACAGAGTC	643	Qy	584	GACATCACAGTGCTGGCTGATGCCAGTCTCCAGATACCCACAGAGTC	643
Db	5174	GATATCACAGTGCTGGCTGATGCCAGTCTCCAGATACCCACAGAGTC	5233	Db	5330	GATATCACAGTGCTGGCTGATGCCAGTCTCCAGATACCCACAGAGTC	5389
Qy	644	CCCTATCAACATCTCATTTGGTCTCTGGATTCAGGCA	680	Qy	644	CCCTATCAACATCTCATTTGGTCTCTGGATTCAGGCA	680
Db	5234	CCTGTCACTCTCATTTGGTCTCTGGATTCAGGATGCCCTCA	5270	Db	5390	CCTGTCACTCTCATTTGGTCTCTGGATTCAGGATGCCCTCA	5426
<hr/>							
RESULT 13							
ID	ABA95615	standard; DNA; 12734 BP.		RESULT 14			
XX				ID	AAZ36203	standard; DNA; 12842 BP.	
AC	ABA95615;			XX			
XX				AC	AAZ36203;		
DT	21-MAR-2002	(first entry)		XX			
XX				DT	11-FEB-2000	(first entry)	
DE	Chimeric BVDV/HCV NS3-wt sequence.			XX			
XX				DE			
KW	Pestivirus; Npro; protease; NS3; screening; ds.			XX			
OS	Chimeric - Bovine viral diarrhea virus.			KW			
OS	Chimeric - Hepatitis C virus.			KW			
XX				XX			
PN	US6336137-B1.			OS			
XX				Chimeric - Hepatitis C virus.			
PD	04-DEC-2001.			OS			
XX				Chimeric - Bovine viral diarrhea virus.			
XX				XX			
PP	25-JUN-1999; 99US-0344456.			PN			
XX				W0955366-A1.			
PR	25-JUN-1999; 99US-0344456.			XX			
XX				04-NCV-1999.			
PA	(SCHE ) SCHERING CORP.			XX			
XX				PP			
PI	Hong Z, Lai VCH, Lau JYN;			23-APR-1999;			
XX				XX			
DR	WPI: 2002-121103/16.			PR			
XX				24-APR-1998;			
PT	Nucleic acid construct encoding chimeric Hepatitis C Virus (HCV) pestivirus genome where the Npro Protease gene is replaced with NS3 protease gene, useful for in vivo screening of compounds which inhibit HCV infection .			XX			
XX				(UNIW ) UNIV WASHINGTON			
PS	Example 2; Columns 17-28; 20pp; English.			PA			
XX				XX			
CC	The present invention relates to a nucleic acid construct encoding a chimeric Hepatitis C virus (HCV)-pestivirus genome. The construct comprises a pestivirus genome where a Npro pestivirus protease gene is replaced with a gene encoding a functional HCV NS3 protease. Furthermore, each junction site recognised by the Npro protease is replaced with a junction site recognised by the HCV NS3 protease. The construct is useful for screening compounds that inhibit HCV in vivo by inhibiting HCV protease, where screening may be in cell culture or in an animal model.			PI			
CC	The present sequence is a chimeric clone of BVDV (bovine viral diarrhea virus)/HCV NS3-wt, which was used to illustrate the present invention.			Rice CM, Frolov I, McBride MS;			
CC	Sequence 12734 BP; 4032 A; 2604 C; 3295 G; 2803 T; 0 other;			XX			
SQ	Query Match 21.9%; Best Local Similarity 94.2%; Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;			DR			
SQ	Length 12734; Pred. No. 3.3e-66; Other:			WPI: 2000-013359/01.			
SQ	Sequence 12734 BP; 4032 A; 2604 C; 3295 G; 2803 T; 0 other;			PT			
SQ	Best Local Similarity 94.2%; Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;			XX			
SQ	Length 12734; Pred. No. 3.3e-66; Other:			PS			
SQ	Sequence 12734 BP; 4034 A; 2612 C; 3282 G; 2914 T; 0 other;			XX			
SQ	Best Local Similarity 94.2%; Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;			XX			
SQ	Length 12734; Pred. No. 3.3e-66; Other:			PS			
SQ	Sequence 12842 BP; 4034 A; 2612 C; 3282 G; 2914 T; 0 other;			XX			

RESULT 11  
 AAC8936 standard; DNA; 12119 BP.  
 XX  
 AC AAC8936;  
 XX DT 02-APR-2001 (first entry)  
 XX DE Nucleotide sequence of a chimeric BVVD/HCV virus.  
 XX KW Chimeric virus; bovine viral diarrhoea virus; BVVD; hepatitis C virus;  
 KW HCV; vaccine; viral inhibitor; antiviral; ss.  
 XX CS Synthetic  
 OS Bovine viral diarrhoea virus.  
 OS Hepatitis C virus.  
 XX FH Key  
 FT CDS Location/Qualifiers  
 /\*tag= a  
 XX WO200075352-A2.  
 XX PD 14-DEC-2000.  
 XX PF 02-JUN-2000; 2000WO-US15527.  
 XX PR 04-JUN-1999; 99US-0137817.  
 XX PA ('USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 PI Nam J, Bukh J, Emerson SU, Purcell RH;  
 XX DR WO2001-07081/08.  
 DR E-PSDB; AAB31167.  
 XX PT New nucleic acid comprising a chimeric acid comprising a chimeric virus  
 PT genome in which the (non-) structural region has been replaced by  
 PT hepatitis C virus (HCV) genome useful for treating or preventing HCV  
 signs and symptoms -  
 XX Disclosure; Page 62-66; 97pp; English.  
 XX The specification describes a nucleic acid comprising a chimeric virus  
 CC genome, specifically bovine viral diarrhoea virus (BVVD) genome in which  
 CC the (non-) structural region has been replaced by the (non-) structural  
 CC region of a hepatitis C virus (HCV) genome. The nucleic acids comprising  
 CC the chimeric virus and the chimeric virus are useful for identifying  
 CC cell lines capable of supporting the replication of these chimeric  
 CC viruses in screening for neutralizing antibodies to HCV of different  
 CC genotypes, in the production of HCV-BVVD viruses, for the development  
 CC of inactivated or attenuated vaccines to prevent HCV-BVVD in a mammal,  
 CC identifying inhibitors of viral enzyme activity which would be useful  
 CC as antiviral agents. Formulations or compositions comprising the  
 CC chimeric viruses may be used to treat or prevent the signs and symptoms  
 CC of HCV. The present sequence represents a chimeric nucleic acid of the  
 CC invention.

Sequence 12119 BP; 3589 A; 2668 C; 3211 G; 2651 T; 0 other;

Query Match 21.9%; Score 251.4; DB 22; Length 12119;  
 Best Local Similarity 94.2%; Pred. No. 3.2e-66;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 404 ATGTGAGCGATGCCAAGGAAGCATGGAGGTTGAATGGACCGGAACCTAACAGT 463  
 Db 4535 ATGTGCACCGATGCCAGGAAGCATGGAGTTGAATGGACCGGAACCTAACAGT 4594

Qy 464 GCCAGATACTGTGCTGAGTGTATAGGTGCAATCCMTCAGGAAGGACTTTGGCA 523  
 Db 4595 GCCAGATACTGTGCTGAGTGTATAGGTGCAATCCMTCAGGAAGGACTTTGGCA 4654

Qy 524 GAGTCAAGGATGTTGGCCCTCAAGATCACCTTGCACTGATGGATGAAAGGTGAT 583  
 Db 4655 GAGTGGAGCATGTTGGCTCAAAATCACCTTGCGCTGATGATGAAAGCTGTAT 4714

Qy 584 GACATCAGAGTGGCGTGGATGCAAGCTGGAGCTTCCAGATACTCCAGAGTC 643  
 Db 4715 GATATCACAGATGGCTGGATGCCAGCTGGATCTCCCGATACTCCAGAGTC 4774

Qy 644 CCCTPATCACATCTCATTTGGTTCTGGATTCCAGGCA 680  
 Db 4775 CCTTGACATCTCATTTGGTTCTGGATGCCCTCA 4811

RESULT 12  
 AAZ26196 standard; cDNA; 12578 BP.  
 ID AAZ26196  
 XX  
 AC AAZ26196;  
 XX DT 11-FEB-2000 (first entry)  
 XX DE Nucleotide sequence of infectious BVVD NADL protein.  
 XX KW Pseudorevertant; RNA virus; chimera; BVVD; HCV; replication-competent;  
 XX 5', nontranslated region; 5' NTR; 3' NTR; pestivirus; antiviral;  
 XX bovine viral diarrhea virus; NADL; vaccine; ss.  
 XX OS Bovine viral diarrhea virus.  
 XX FH Key  
 FT CDS Location/Qualifiers  
 386..12352  
 FT /\*tag= a  
 FT /product= "NADL protein"  
 XX PR WO955366-A1.  
 XX PA 04-NOV-1999.  
 XX PD 23-APR-1999; 99WO-US08850.  
 XX PR 24-APR-1998; 9B05-0082964.  
 XX PA (UNIV ) UNIV WASHINGTON.  
 XX PI Rice CM, Frolov I, McBride MS;  
 XX DR WO2000-013359/01.  
 XX DR E-PSDB; AAY33616.  
 XX PT Chimeric viral RNA, used in vaccine against BVVD -  
 XX PS Disclosure; Fig 11; 108pp; English.  
 XX CC The present sequence encodes the NADL protein of bovine viral diarrhea  
 CC virus (BVVD). The sequence is used in the course of the invention, to  
 CC produce chimeric RNA viruses. The specification describes chimeric viral  
 CC RNA comprising a 5' nontranslated region (5' NTR); an open reading frame  
 CC (ORF) region; and a 3' NTR; where at least one of the regions is chimeric  
 CC and comprises a nucleotide sequence from a pestivirus in operable linkage  
 CC with a heterologous nucleotide sequence, preferably from HCV. The  
 CC chimeric viral RNA is replication-competent. The chimeric viral RNA  
 CC can be used in a method for identifying compounds having antiviral  
 CC activity against HCV. When the pestivirus viral nucleotide sequence is  
 CC from bovine viral diarrhea virus (BVVD), the chimeric viral RNA can be  
 CC used in a vaccine against BVVD.  
 XX SQ Sequence 12578 BP; 4049 A; 2527 C; 3233 G; 2769 T; 0 other;

Query Match 21.9%; Score 251.4; DB 21; Length 12578;  
 Best Local Similarity 94.2%; Pred. No. 3.2e-66;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

XX Sequence 7453 BP; 1980 A; 1633 C; 1692 G; 2147 T; 1 other;

Query Match 39.5%; Score 453; DB 22; Length 7453;

Best Local Similarity 100.0%; Pred. No. 1.5e-128;

Matches 451; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 695 AGAGCCACCCAGATGCCCTCCTGATCTCAGGATCTTCGA 754

Db 3315 AGAGCCACCCAGATGCCCTCCTGATCTCAGGATCTTCGA 3374

QY 755 GTACCCCCAGGGCAGATGCCCAATGGAACTTCTGCAGCTCCAGGTGCCCTGGA 814

Db 3375 GTACCCCCAGGGCAGATGCCCAATGGAACTTCTGCAGCTCCAGGTGCCCTGGA 3434

QY 815 GCGGTGAGCCTTAAGCCAACAGCACAGTACCAAGGGAGAGCCAACCTAAGGCC 874

Db 3435 GCGGTGAGCCTTAAGCCAACAGCACAGTACCAAGGGAGAGCCAACCTAAGGCC 3494

QY 875 CGGAGAAAGTGGAGGGCCCTTCAACGGTGTATCCCTCAATCAATG 934

Db 3495 CGGAGAAAGTGGAGGGCCCTTCAACGGTGTATCCCTCAATCAATG 3554

QY 935 TCAGGGAGCTAAAGGGCTTAGCACAGGAGTGGACTTTGATTATCCCTCCAC 994

Db 3555 TCAGGGAGCTAAAGGGCTTAGCACAGGAGTGGACTTTGATTATCCCTCCAC 3614

QY 995 ACCTAGGAATCTGAATCTTCTCTTATTTTGAGAGGGAGTTGGCTCTGTGCGCA 1054

Db 3615 ACCTAGGAATCTGAATCTTCTCTTATTTTGAGAGGGAGTTGGCTCTGTGCGCA 3674

QY 1055 GCTGGAGTGGCAGTGGTGAATCTAGCTACTGCAACCTCTGCTCTGGCTCAAGCCA 1114

Db 3675 GCTGGAGTGGCAGTGGTGAATCTAGCTACTGCAACCTCTGCTCTGGCTCAAGCCA 3734

QY 1115 TTCTCCCATCTCAGCTCTCAGCTCTCAGTGAAGCTGGAT 1147

Db 3735 TTCTCCCATCTCAGCTCTCAGTGAAGCTGGAT 3767

RESULT 1.0

ID ABLS5114 standard; DNA; 884 BP.

XX ABLS5114 standard; DNA; 884 BP.

XX ABLS5114;

XX 08-OCT-2002 (First entry)

DE Human cDNA sequence #2 from clone HNTPB82.

XX Human; HNTPB82; secreted protein; immunosuppressive; food preservative; antiarthritic; antirheumatic; antiproliferative; cyostatic; cardiant; vasotropis; cereboprotective; nootropic; neuroprotective; antibacterial; viricide; fungicide; opthalmological; pulmonary; gene therapy; ELISA; radioimmunoassay; enzyme linked immunosorbent assay; autoimmune disease; hyperproliferative disorder; cardiovascular disorder; angiogenesis; cerebrovascular disorder; nervous system disorder; ocular disorder; wound healing; food additive; SS.

XX Homo sapiens.

XX Location/Qualifiers

FH Key 272..883

FT CDS /tag= <sup>a</sup>  
/note= "No stop codon given"

FT sig\_peptide 272..400  
/tag= <sup>b</sup>  
/note= "No stop codon given"

FT mat\_Peptide 401..883  
/tag= <sup>c</sup>

XX WO200222638-A1.

XX 21-MAR-2002.

XX 17-JAN-2001; 2001WO-US01386.

PF XX

PR 12-SEP-2000; 2000US-232104P.

XX (HIMA-) HUMAN GENOME SCI INC.

Rossen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR, Olsen HS; Moore PA, Ebner R, Duan DR, Shi Y, Choi GH, Fiscella M; Ni J;

PI PI

XX WPI 2002-258041/30.

DR p-PDB; ABB77045.

XX New nucleic acid molecules encoding 22 human secreted proteins for diagnosing or treating e.g. autoimmune diseases, hyperproliferative disorders, and cardiovascular disorders, and used as food additives or preservatives -

XX Disclosure; Page 466-467; 526pp; English.

PS CC

XX The sequence represents a cDNA sequence of the invention, isolated from human clone ID HNTPB82. The invention relates to novel isolated nucleic acid molecules encoding 22 human secreted proteins. The proteins of the invention have immunosuppressive, antiarthritic, antirheumatic, antiproliferative, cyostatic, cardiant, vasotropis, cereboprotective, nootropic, antibacterial, viricide, fungicide, ophthalmological, and pulmonary activity. The polynucleotides may have a use in gene therapy. The polynucleotides and polypeptides encoded by them are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. The polynucleotides and polypeptides are also used in diagnosing a pathological condition or susceptibility to a pathological condition. The antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases, hyperproliferative disorders, cardiovascular disorders, cerebrovascular disorders, angiogenesis, nervous system disorders, infections caused by bacteria, viruses and fungi and ocular disorders. The polypeptides can also be used to aid wound healing and epithelial cell proliferation. The polypeptides can also be used as a food additive or preservative.

XX Sequence 884 BP; 187 A; 178 C; 291 G; 228 T; 0 other;

SQ CC

XX Query Match 23.8%; Score 272.8; DB 24; Length 884;

Best Local Similarity 95.6%; Pred. No. 1.9e-73;

Matches 302; Conservative 0; Mismatches 12; Indels 2; Gaps 2;

QY 1 GCCTGGTCAAGGAATTTATAGGAGGGATGACCTGAGCTAGTGGCGCTA 60

Db 562 GCCTGGTCAAGGAATTTATAGGAGGGATGACCTGAGCTAGTGGCGCTA 621

QY 61 CTGCAGCTGTGAGAGGAATCTGACATGGCTGACTCTGAGGTGCT 120

Db 622 CTGCAGCTGTGAGAGGAATCTGACCTGCTGAGGTGCT 681

QY 121 GCTAACCCCTTCCATGACTGGGTGAGGTGAAGTGAA 180

Db 682 GCTAACCCCTTCCATGACTGGGTGAGGTGAAGTGAA 741

QY 181 GCCTATAGACAGCTGGCAGTGTGTTCAATCTGACAAAATCATCATTGTGAACTGAGGA 240

Db 742 GCCTATAGACAGCTGGCAGTGTGTTCAATCTGACAAAATCATCATTGTGAACTGAGGA 801

QY 241 GGAGGCCTTCAGG-TTTGCGAGCAGTT-GGGCATATGTCGAAAGCGA 298

Db 802 GGAGGCCTTCAGG-TTTGCGAGCAGTTGTCGAAAGCGA 861

QY 299 AAGGATGATGAGATGA 314

Db 862 AACGGAGTATGGAGA 877

PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-015135.  
 PR 07-JUL-2000; 2000US-0216547.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-021747.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-020983.  
 PR 14-AUG-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224118.  
 PR 14-AUG-2000; 2000US-0225113.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
 PR 14-AUG-2000; 2000US-0225267.  
 PR 14-AUG-2000; 2000US-0225268.  
 PR 14-AUG-2000; 2000US-0225159.  
 PR 22-AUG-2000; 2000US-0225270.  
 PR 22-AUG-2000; 2000US-0225447.  
 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 18-AUG-2000; 2000US-0225759.  
 PR 22-AUG-2000; 2000US-0226279.  
 PR 01-SEP-2000; 2000US-0226681.  
 PR 22-AUG-2000; 2000US-0226868.  
 PR 01-SEP-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
 PR 30-AUG-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229287.  
 PR 01-SEP-2000; 2000US-0223343.  
 PR 01-SEP-2000; 2000US-0223344.  
 PR 05-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 05-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231143.  
 PR 08-SEP-2000; 2000US-0231144.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0232397.  
 PR 14-SEP-2000; 2000US-0232398.  
 PR 14-SEP-2000; 2000US-0232399.  
 PR 14-SEP-2000; 2000US-0232400.  
 PR 14-SEP-2000; 2000US-0233401.  
 PR 14-SEP-2000; 2000US-0233653.  
 PR 14-SEP-2000; 2000US-0233064.  
 PR 21-SEP-2000; 2000US-0233065.  
 PR 21-SEP-2000; 2000US-0234223.  
 PR 25-SEP-2000; 2000US-0234997.  
 PR 26-SEP-2000; 2000US-0235484.  
 PR 27-SEP-2000; 2000US-0235834.  
 PR 27-SEP-2000; 2000US-0235836.  
 PR 29-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236367.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 02-OCT-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0237031.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240960.

PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0244674.  
 PR 08-NOV-2000; 2000US-0246475.  
 PR 08-NOV-2000; 2000US-0246476.  
 PR 08-NOV-2000; 2000US-0246477.  
 PR 08-NOV-2000; 2000US-0246478.  
 PR 08-NOV-2000; 2000US-0246523.  
 PR 08-NOV-2000; 2000US-0246524.  
 PR 08-NOV-2000; 2000US-0246525.  
 PR 08-NOV-2000; 2000US-0246526.  
 PR 08-NOV-2000; 2000US-0246527.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 08-NOV-2000; 2000US-0246532.  
 PR 08-NOV-2000; 2000US-0246609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249209.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249244.  
 PR 17-NOV-2000; 2000US-0249245.  
 PR 17-NOV-2000; 2000US-0249264.  
 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-025160.  
 PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0249130.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254597.  
 PR 05-JAN-2001; 2001US-0259378.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX PI Rosen CA, Barish SC, Ruben SM;  
 XX DR WPI; 2001-465570/50.  
 XX PS Disclosure; SEQ ID NO 8949; 1297pp + Sequence Listing; English.  
 XX CC The present invention provides the protein and coding sequences of a  
 CC number of human reproductive system related antigens. These can be used  
 CC in the prevention, treating or ameliorating a medical condition -  
 CC including cancer. The present sequence is a genomic sequence encoding a  
 CC protein of the invention.



Db	397	CTGAGGAAGGAGACTTTGGCAGACTTGCAGTCAGCATGTCAGTCAGATCACCTTGC 456	PR	14-AUG-2000; 2000US-0224519.
Qy	561	CACTATGGATGAAAGGTATGACATCACAGTGCTGGATGCCAG-CGTTAGGT 619	PR	14-AUG-2000; 2000US-0225213.
Db	457	CACTATGGATGAAAGGTATGACATCACAGTGCTGGATGCCAG-CGTTAGGT 516	PR	14-AUG-2000; 2000US-0225214.
Qy	620	ATCTCCCCAGATACCCACAGATCCCTATCACATCTCATGGTCTGGATTCCAGGC 679	PR	14-AUG-2000; 2000US-0225266.
Db	517	ATCTCCCCAGATACCCACAGATCCCTATCACATCTCATGGTCTGGATTCCAGGC 576	PR	14-AUG-2000; 2000US-0225267.
Qy	680	ACCAAGGGGGCAGAGGCCACCCAGATGCCCTCCGCTGATCTTAGGATTCTG 739	PR	14-AUG-2000; 2000US-0225268.
Db	577	ACCAGAGGGGGCAGAGGCCACCCAGATGCCCTTCGCTGATCTGGATTCTG 636	PR	14-AUG-2000; 2000US-0225270.
Qy	740	AGTCGGATCTTCAGAACCCAGGGAAATGGCAATGGAACTCTTGAGCTCT 799	PR	14-AUG-2000; 2000US-0225447.
Db	637	AGTCCATATTTCAAGTACCCAGGGAAATGGCAATGGAACTCTTGAGCTCT 696	PR	14-AUG-2000; 2000US-0225758.
Qy	600	CAGCCCTGCC 809	PR	14-AUG-2000; 2000US-0225759.
Db	697	AACCTTGCCC 706	PR	14-AUG-2000; 2000US-0226179.
RESULT 8			PR	22-AUG-2000; 2000US-0226681.
AAS30481	ID	AAS30481 standard; DNA; 7453 BP.	PR	22-AUG-2000; 2000US-0226688.
XX			PR	23-AUG-2000; 2000US-0227182.
AC			PR	30-AUG-2000; 2000US-0227009.
AC			PR	01-SEP-2000; 2000US-0228924.
AC			PR	01-SEP-2000; 2000US-0229287.
AC			PR	01-SEP-2000; 2000US-0229343.
AC			PR	01-SEP-2000; 2000US-0229344.
AC			PR	01-SEP-2000; 2000US-0229345.
AC			PR	05-SEP-2000; 2000US-0229509.
AC			PR	05-SEP-2000; 2000US-0229513.
AC			PR	06-SEP-2000; 2000US-0230437.
AC			PR	08-SEP-2000; 2000US-0230438.
AC			PR	08-SEP-2000; 2000US-0231242.
AC			PR	08-SEP-2000; 2000US-0231243.
AC			PR	08-SEP-2000; 2000US-0231244.
AC			PR	08-SEP-2000; 2000US-0231413.
XX	21-NOV-2001	(first entry)	PR	08-SEP-2000; 2000US-0232080.
XX			PR	08-SEP-2000; 2000US-0232081.
DE		DNA encoding novel prostate gland antigen, Seq ID No 339.	PR	12-SEP-2000; 2000US-02331968.
XX			PR	14-SEP-2000; 2000US-0233397.
KW		Human; neuroprotective; cyrostatic; antiparkinsonian;	PR	14-SEP-2000; 2000US-0233399.
KW		antianemic; dermatomic; immunosuppressive; antinflammatory;	PR	14-SEP-2000; 2000US-0233400.
KW		osteoapthic; antirheumatic; virucide; hepatotoxic; nephrotropic;	PR	14-SEP-2000; 2000US-0234201.
KW		prostate; prosate gland; prostatitis; adenocarcinoma; hair loss;	PR	14-SEP-2000; 2000US-0233063.
KW		hyperplasia; carcinoma; prostate neoplastic disorder; skin aging;	PR	14-SEP-2000; 2000US-0233064.
KW		reproductive system disorder; autoimmune disorder; urinary system;	PR	14-SEP-2000; 2000US-0233065.
KW		systemic lupus erythematosus; rheumatoid arthritis; cardiovascular;	PR	21-SEP-2000; 2000US-0234223.
KW		blood-related disorder; hyperproliferative disorder; respiratory;	PR	21-SEP-2000; 2000US-0234274.
KW		neurological disorder; endocrine disorder; inflammatory disorder;	PR	25-SEP-2000; 2000US-0234997.
XX		liver disorder; wound healing; food preservative; ds.	PR	25-SEP-2000; 2000US-0234998.
OS			PR	26-SEP-2000; 2000US-0235484.
OS			PR	27-SEP-2000; 2000US-0235834.
PN		WO200155447-A1.	PK	27-SEP-2000; 2000US-0235836.
XX			PR	29-SEP-2000; 2000US-0236327.
PD		02-AUG-2001.	PR	29-SEP-2000; 2000US-0236368.
XX	17-JAN-2001	; 2001WO-US01330.	PR	29-SEP-2000; 2000US-0236369.
PF			PR	29-SEP-2000; 2000US-0236370.
XX			PR	02-OCT-2000; 2000US-0236802.
PR	31-JAN-2000	; 2000US-0179065.	PR	02-OCT-2000; 2000US-0237037.
PR	04-FEB-2000	; 2000US-0180628.	PR	02-OCT-2000; 2000US-0237038.
PR	02-MAR-2000	; 2000US-018464.	PR	02-OCT-2000; 2000US-0237039.
PR	16-MAR-2000	; 2000US-0186350.	PR	02-OCT-2000; 2000US-0237040.
PR	17-MAR-2000	; 2000US-0190076.	PR	13-OCT-2000; 2000US-0239931.
PR	18-APR-2000	; 2000US-0198123.	PR	20-OCT-2000; 2000US-0241808.
PR	19-MAY-2000	; 2000US-0205515.	PR	20-OCT-2000; 2000US-0241809.
PR	02-JUN-2000	; 2000US-0209467.	PR	20-OCT-2000; 2000US-0241816.
PR	28-JUN-2000	; 2000US-0214886.	PR	01-NOV-2000; 2000US-0244617.
PR	30-JUN-2000	; 2000US-0215135.	PR	08-NOV-2000; 2000US-0246174.
PR	07-JUL-2000	; 2000US-0216647.	PR	08-NOV-2000; 2000US-0246175.
PR	07-JUL-2000	; 2000US-0216880.	PR	08-NOV-2000; 2000US-0246177.
PR	11-JUL-2000	; 2000US-0217487.	PR	
PR	14-JUL-2000	; 2000US-0217496.	PR	
PR	26-JUL-2000	; 2000US-0220963.	PR	
PR	26-JUL-2000	; 2000US-0220964.	PR	
PR	14-AUG-2000	; 2000US-0224518.	PR	





PD 14-OCT-1999.  
 XX 29-MAR-1999; 99W0-US06831.  
 PF 03-APR-1998; 98US-0054956.  
 XX PA (CURA-) CURAGEN CORP.  
 XX Nandabalan K, Kingsmore S;  
 PI WPI; 1999-620203/53.  
 DR P-SDDB; AAY32126.  
 XX Protein complexes interacting proteins, and related polynucleotides useful for treating and preventing e.g. atopic, autoimmune or neurodegenerative diseases -  
 PS Claim 21; Fig 7; 172pp; English.  
 XX This is the nucleotide sequence of cDNA which codes for a novel human LYST interacting protein, LIP6 (see AAY32126), that shows homology to Pestivirus Ns2-3. LYST is the human lysosomal Chediak-Higashi Syndrome (CHS) protein. The invention relates to complexes of LYST or LYST-2 (see AAY3120) with proteins identified as interacting with LYST or LYST-2 by a modified yeast two-hybrid assay system. The interacting proteins include 10 novel proteins, LIP1-10 (see AAY2121-30). Methods of screening the protein complexes for efficacy in treating and/or preventing atopic diseases (e.g. asthma, nasal polyps, hay fever rhinitis, urticaria) autoimmune diseases (e.g. CHS, rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disease, diabetes mellitus, multiple sclerosis), neurodegenerative disease, certain forms of cancer, pigmentation disorders, platelet dysfunction and viral diseases are provided. Nucleic acids (see AA234487-96) encoding LIP1-10, modulation of LIP function by gene therapy, use of antisense Oligonucleotides for suppression of LIP protein expression, screening for agonists and antagonists, diagnosing or screening for the presence of a predisposition to a disease or disorder, and animal models are also disclosed.  
 XX Sequence 754 BP; 193 A; 185 C; 200 G; 176 T; 0 other;  
 SQ Query Match 64.8%; Score 743; DB 20; Length 754;  
 Best Local Similarity 99.9%; Pred. No. 1.e-218;  
 Matches 754; Conservative 0; Mismatches 0; Indels 1; Gaps 1;  
 Ps Qy 301 GGATATGGATGAAACGATGGZAGAGATGAGCTGAGCCGGTCAGTAATGAGTTCT  
 Db 1 GGATATGGATGAAACGATGGZAGAGATGAGCTGAGCCGGTCAGTAATGAGTTCT 360  
 Ps Qy 361 GTCCAAGGTCAAGATGACTCAAGGACCAATGAACTATGATGATGATGGCGATGCCA  
 Db 61 GTCCAAGGTCAAGATGACTCAAGGACCAATGAACTATGATGATGATGGCGATGCCA 120  
 Ps Qy 421 AGGAAAGCATAGGGTGAATGGACGGGAACCTAAGTGCCAGTACTGTGCTG  
 Db 121 AGGAAAGCATAGGGTGAATGGACGGGAACCTAAGTGCCAGTACTGTGCTG 180  
 Ps Qy 481 GTGAAATAGCTGATCCGTCAGGGAAAGGAGACTTGGCGAGACTGATGCTGG  
 Db 181 GTGAAATAGCTGATCCGTCAGGGAAAGGAGACTTGGCGAGACTGATGCTGG 540  
 Ps Qy 541 CCTCAAGATCACCTACTTGACTGATGGATGAAAGGTATGACATCACAGATGGC  
 Db 241 CCTCAAGATCACCTACTTGACTGATGGATGAAAGGTATGACATCACAGATGGC 600  
 Ps Qy 601 TGATGCGGCGGTAGGTATCTCCGAGATCCACAGAGTCCTPATCACATCAT  
 Db 301 TGATGCGGCGGTAGGTATCTCCGAGATCCACAGAGTCCTPATCACATCAT 660  
 Ps Qy 661 TGTTTCGGATTCCAGGCCACAGAGGGGGAGAGGCACCCAGATGCCCTCTGC  
 Db 361 TGTTTCGGATTCCAGGCCACAGAGGGGGAGAGGCACCCAGATGCCCTCTGC 720

Qy 721 TGATCTTCAGGATTCTTGATGGATCTTCAAGTAGCCAGAGTCAGCTCATGG 780  
 Db 421 TGATCTTCAGGATTCTTGATGGATCTTCAAGTAGCCAGAGTCAGCTCATGG 479  
 Qy 781 GAACTCTTGGAGCTCCCTAGCTGCCCTGAGCGCTGAGCTTAAGCCAAACAG 840  
 Db 480 GAACTCTTGGAGCTCCCTAGCTGCCCTGAGCGCTGAGCTTAAGCCAAACAG 539  
 Qy 841 CACAGTACCAAGGGAGAACCTAAGGCGGGAAAGTGAGGAGGGCTTCCA 900  
 Db 540 CACAGTACCAAGGGAGAACCTAAGGCGGGAAAGTGAGGAGGGCTTCCA 599  
 Qy 901 ACCTGATGCCCTTCTTTCTCAATCAATGTCAGGGAGTCAGGCTGAGCAC 960  
 Db 600 ACCTGATGCCCTTCTCTTCTCAATCAATGTCAGGGAGTCAGGCTGAGCAC 659  
 Qy 961 AGGATGGAGCTTGATGATTTACCCCCAACCTAGGAATCTGAAATCTTTCTTT 1020  
 Db 660 AGGATGGAGCTTGATGATTTACCTCTCTCCCTCAATCAATGTCAGGGAGTCAGGCTGAGCAC 1055  
 Qy 1021 TATTTTGAGATGGAGCTGCTGTTCTGTTCTTCTTCTTCTTCTTCTTCTT 719  
 Db 720 TATTTTGAGATGGAGCTGCTGTTCTGTTCTTCTTCTTCTTCTTCTTCTTCTT 754

RESULT 5  
 ABX04184  
 ID ABX04184 standard; cDNA; 754 BP.  
 XX ABX04184;  
 XX DT 10-JAN-2003 (first entry)  
 XX DE Human mRNA differentially expressed in mesenchymal cells #31.  
 XX Human; ss; gene; skeletal growth; cartilage degeneration disorder; chondroblastic phenotype; mesenchymal cell; cartilage formation; bone formation; arthritis; osteoarthritis; rheumatoid arthritis; gout arthritis; adjuvant arthritis; arthritis deformans; antigout; infectious arthritis; osteochondrosis; RDA; antiarthritic; osteopathic; antirheumatic; antimflammatory; representational difference analysis.

ABX04184;  
 XX DT 10-JAN-2003 (first entry)  
 XX DE Human mRNA differentially expressed in mesenchymal cells #31.  
 XX Human; ss; gene; skeletal growth; cartilage degeneration disorder; chondroblastic phenotype; mesenchymal cell; cartilage formation; bone formation; arthritis; osteoarthritis; rheumatoid arthritis; gout arthritis; adjuvant arthritis; arthritis deformans; antigout; infectious arthritis; osteochondrosis; RDA; antiarthritic; osteopathic; antirheumatic; antimflammatory; representational difference analysis.

XX Homo sapiens.  
 XX PN WO20021927-A2.  
 XX PD 19-SEP-2002.  
 XX PF 12-MAR-2002; 2002WO-US07787.  
 XX PR 12-MAR-2001; 2001US-274980P.  
 XX XX (BGHM ) BRIGHAM & WOMENS HOSPITAL INC.  
 XX PI Yates KE, Mizuno S, Glowacki J;  
 XX DR WPI; 2002-723276/78.  
 XX PT New nucleic acid molecules capable of promoting chondrogenesis, useful for diagnosing and treating cartilaginous tissue degeneration conditions, e.g. osteoarthritis, rheumatoid arthritis, gout arthritis, or osteochondrosis -  
 XX PS Claim 33; Page 129; 153pp; English.  
 XX CC The invention relates to new isolated nucleic acid molecule comprising a nucleic acid molecule consisting of a gene differentially expressed in cells undergoing differentiation from mesenchymal cell to a chondroblastic phenotype or hybridising from under stringent conditions to them (or their fragments). Also included are expression vectors, transformed host cells, expressed polypeptides or peptide fragments which induce differentiation of a mesenchymal cell and may be used as an





PR	03-AUG-1999;	99US-0146508.
PR	22-OCT-1999;	99US-0160924.
XX	(INCY.) INCYTE GENOMICS INC.	
PA	Yue H., Bandman O., Tang YT., Baughn MR., Azimzai Y., Lu Dam,	
XX	WPI; 2001-159853/16.	
DR	P-PSB; AAB6745.	
XX	New human chaperone proteins and polynucleotides, useful in diagnosing, treating and preventing reproductive, eye, neuromuscular, metabolic, autoimmune or inflammatory disorders	
PT	Claim 5; Page 95-96; 102PP; English.	
XX	The present sequence encodes a human chaperone polypeptide. Human chaperone polypeptides and polynucleotides are useful in the diagnosis, treatment and prevention of reproductive (e.g. prolactin production, prostate or testis, Peyronies disease), eye (e.g. conjunctivitis, keratitis, iritis, glaucoma), neuromuscular, metabolic (e.g. Zellweger syndrome, Adonis disease, cystic fibrosis), and autoimmune and inflammatory disorders (e.g. systemic lupus erythematosus, acquired immunodeficiency syndrome (AIDS), asthma, atherosclerosis), infectious or viral diseases, and cell proliferative disorders. Chaperone polynucleotides may be used for somatic or germline gene therapy, to detect and quantify gene expression in biopsied tissues in which expression is correlated with disease.	
SQ	Sequence 1147 BP; 287 A; 278 C; 314 G; 268 T; 0 other;	
Query Match	Score 1147;	Length 1147;
Best Local Similarity	100.0%;	DB 22;
Matches 1147;	Pred. No. 0;	Length 1147;
Db	Mismatches 0;	Gaps 0;
Qy	1 GCCTTGGTTAAGCGAATTAATAAGCAGGGAAATGCACTGTAGCTAGTGGGGCTA 60	
Db	1 GCCTTGGTTAAGCGAATTAATAAGCAGGGAAATGCACTGTAGCTAGTGGGGCTA 60	
Qy	61 CTGCCAGCCCTGAAGCCAAGTGGCTGACTCTGGCATGGTCTGGGTTCTGAGGATGA 120	
Db	61 CTGCCAGCCCTGAAGCCAAGTGGCTGACTCTGGCATGGTCTGGGTTCTGAGGATGA 120	
Qy	121 GCTAAACCCCTTCAGTAGTACCTGGGTTGGGCCACAGCATCAGATGTTGAAAGAA 180	
Db	121 GCTAACCCCTTCAGTAGTACCTGGGTTGGGCCACAGCATCAGATGTTGAAAGAA 180	
Qy	181 GGCTTATAGCAGCTGGCAGTGGATGGTCACTCTGACAAAATCATCATGGCTGA 240	
Db	181 GGCTTATAGCAGCTGGCAGTGGATGGTCACTCTGACAAAATCATCATGGCTGA 240	
Qy	241 GGAGCCCTCAAGGTTGGGAGCTGGACATTGTCAGCATGCTGAAAAGCGAA 300	
Db	241 GGAGCCCTCAAGGTTGGGAGCTGGACATTGTCAGCATGCTGAAAAGCGAA 300	
Qy	301 GGAGTATGAGATGAAACGAAAGTGGCAGAGATGAGCTGAGCGGTAGTAATGAGTTCT 360	
Db	301 GGAGTATGAGATGAAACGAAAGTGGCAGAGATGAGCTGAGCGGTAGTAATGAGTTCT 360	
Qy	361 GTCCAAGCTGAAGTAGCTCAAGGAGGAATGATACTATGATGTCAGCCGATGCCA 420	
Db	361 GTCCAAGCTGAAGTAGCTCAAGGAGGAATGATACTATGATGTCAGCCGATGCCA 420	
Qy	421 AGGAAAGCATAGGAGCTTCGAAATGGCAGGAACTAAGAGTGCACTACTGCTGA 480	
Db	421 AGGAAAGCATAGGAGCTTCGAAATGGCAGGAACTAAGAGTGCACTACTGCTGA 480	
Qy	481 GTGTAATAGGCTGATCCCTGCTGAGGAAGGAGACTTGGCAGATGCTGA 540	
Db	481 GTGTAATAGGCTGATCCCTGCTGAGGAAGGAGACTTGGCAGATGCTGA 540	
Qy	541 CCTCAAGATCACCTACTTGTGACTCTGATGGAAAGGTTATGACATCACAGGTGGGC 600	
XX	Human CDNA sequence #1 from clone HNTPB82.	
RESULT	2	
ID	ABL55088	standard; DNA; 2279 BP.
XX	AC	ABL55088;
XX	DT	08-Oct-2002 (first entry)
XX	DE	Human: HNTPB82; secreted protein; immunosuppressive; food preservative; antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiotonic; vasoconstrictive; cerebroprotective; nootropic; neuroprotective; antibacterial; virucide; fungicide; ophthalmologic; vulnerary; gene therapy; ELISA; radioimmunoassay; enzyme linked immunosorbent assay; autoimmune disease; hyperproliferative disorder; cardiovascular disorder; angiogenesis; cerebrovascular disorder; nervous system disorder; ocular disorder; wound healing; food additive; ss.
XX	OS	Homo sapiens.
XX	FH	Location/Qualifiers
XX	Key CDS	
FT	/tag= a	
FT	/tag= b	
FT	/tag= c	

GenCore version 5.1.6  
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! nucleic - nucleic search, using sw model

Run on: December 1, 2003, 07:30:31 ; Search time 379 Seconds  
 (without alignments)  
 8169.539 Million cell updates/sec

Title: US-10-049-742-22

Perfect score: 1147

Sequence: 1 gcttggatcaagcagaata.....gcctctgaaatgcgtggat 1147

Scoring table: IDENTITY\_NUC

Gapop 10\_0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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 2: /SIDS1/gcgdata/geneseq/geneseq-geneseq-emb1/NA1981.DAT:*
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Pred. No. is the number of results predicted by chance to have a score higher than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Length	DB ID	Description
1	1147	100.0	1147	22 AAF54994 Nucleotide sequence
2	1145.4	99.9	2279	24 ABLS5988 Human cDNA sequence
3	1142.4	99.6	3286	24 ABL6700 Nucleotide sequence
4	743	64.8	754	20 AA234492 Human L1/intergenic
5	743	64.8	754	24 ABX0184 Human rRNA/differ.
6	743	64.8	754	24 ABST74460 cDNA encoding human
7	628.2	54.8	747	22 AA196802 DNA encoding novel
8	453	39.5	7453	22 AAS30081 DNA

SUMMARIES

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OM nucleic - nucleic search, using sw mode!

Run on: December 1, 2003, 07:30:31 ; Search time 90 Seconds (without alignments)

5625.183 Million cell updates/sec

Title: US-10-049-742-22

Perfect score: 1147

Sequence: 1 gccttgggtcaaggagaata.....gccttggtagttggat 1147

Scoring table: IDENTITY\_NUC Gapext 1.0

Searched: 56978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match C<sup>t</sup>0% Maximum Match 100% Listing First 45 summaries

Database : Issued Patents Na:<sup>\*</sup>

- 1: /cnr2\_6/pododata/2/ina/5A COMB. seq:\*
- 2: /cnr2\_6/pododata/2/ina/5B COMB. seq:\*
- 3: /cnr2\_6/pododata/2/ina/6A COMB. seq:\*
- 4: /cnr2\_6/pododata/2/ina/6B COMB. seq:\*
- 5: /cnr2\_6/pododata/2/ina/PCUTUS COMB. seq:\*
- 6: /cnr2\_6/pododata/2/ina/backfile1 seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	251.4	21.9	12734	4	US-09-344456-1 Sequence 1, Appli
2	251.4	21.9	14078	3	US-09-4332262-1 Sequence 1, Appli
3	251.4	21.9	14078	4	US-09-702330-1 Sequence 1, Appli
c	5	251.4	21.9	14578	3 US-08-859694-1 Sequence 3, Appli
c	6	112.4	10.2	28001	4 US-09-819993-3 Sequence 3, Appli
c	7	110.4	9.8	174493	4 US-09-804471A-3 Sequence 3, Appli
c	8	109.8	9.6	43069	4 US-09-292542A-1 Sequence 1, Appli
c	9	107	9.3	74962	4 US-09-6853A-3 Sequence 3, Appli
c	10	107	9.3	955	4 US-09-641638-4 Sequence 4, Appli
c	11	107	9.3	955	4 US-09-471A-3 Sequence 5, Appli
c	12	107	9.3	955	4 US-09-641638-6 Sequence 6, Appli
c	13	107	9.3	1000	4 US-09-641638-7 Sequence 7, Appli
c	14	106	9.2	2871	4 US-09-489847-111 Sequence 11, Appli
c	15	106	9.2	2876	4 US-09-489847-12 Sequence 22, Appli
c	16	106	9.2	43950	4 US-09-735934A-3 Sequence 3, Appli
c	17	106	9.2	43950	4 US-10-060332-3 Sequence 3, Appli
c	18	106	9.2	174493	4 US-09-804471A-3 Sequence 3, Appli
c	19	105.2	9.2	31208	4 US-09-641638-650 Sequence 650, Appli
c	20	104.8	9.1	2839	3 US-08-468856B-5 Sequence 5, Appli
c	21	104.8	9.1	2839	3 US-08-468859A-5 Sequence 5, Appli
c	22	104.6	9.1	562	3 US-09-385982-442 Sequence 412, Appli
c	23	104.6	9.1	606	3 US-09-385982-413 Sequence 413, Appli
c	24	104.6	9.1	632	3 US-09-385982-177 Sequence 127, Appli
c	25	104.6	9.1	657	3 US-09-385982-135 Sequence 335, Appli
c	26	104.4	9.1	653	3 US-09-385982-324 Sequence 324, Appli
c	27	104.4	9.1	59065	4 US-09-813817-3 Sequence 3, Appli

RESULT 2

## ALIGNMENTS

RESULT 1

US-09-344456-1

; Sequence 1, Application US/09344456A

; Patent No. 6326137

; GENERAL INFORMATION:

; APPLICANT: Hong, Zhi

; APPLICANT: Lau, Vicki C.H.

; TITLE OF INVENTION: HEPATITIS C VIRUS PROTEASE-DEPENDENT CHIMERIC

; TITLE OF INVENTION: PESTIVIRUS

; FILE REFERENCE: IN01038

; CURRENT APPLICATION NUMBER: US/09/344456A

; CURRENT FILING DATE: 1999-06-25

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO: 1

; LENGTH: 12734

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Chimeric

US-09-344456-1

Query Match 21.9%; Score 251.4; DB 4; Length 12734;

Best Local Similarity 94.2%; Pred. No. 1.5e-68;

Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 404 ATGTGAGTCAGCGATGCAAGGAACCTAACTAGT

Db 5150 ATGTCAGCGCATGCAAGGAACTGGGAACTTAGT

Qy 464 GCCAGATACTGTGAGTAACTGGCTGAGGAGACTTTGGCA

Db 5220 GAGTCGACATGTGGCTCAAATCACCTACTTGGCTGATGGTGAAGGTGTA

Qy 584 GACATACAGATGTTGGATGCCAGATACCCAAGAGTC

Db 5210 GCGAGATACTGTGAGTAACTGGCTGATCCGATCTGTGACATTGGCA

Qy 524 GAGTCAGCATGTCAGCTCAAGATCACCTACTTGACTGATGATGGAAAGGTGAT

Db 5229 GAGTCGACATGTGGCTCAAATCACCTACTTGGCTGATGGTGAAGGTGTA

Qy 5330 GATATCACAGATGTTGGATGCCAGATACCCAAGAGTC

Db 5339 CCCTATCACATCTCATTTGGCTCTCGGATTCAGCCA

US-09-433-262-1  
 Sequence 1, Application US/09433262  
 Patent No. 6168942  
 GENERAL INFORMATION:  
 APPLICANT: Cao, Xuemei  
 TITLE OF INVENTION: ATTENUATED FORMS OF BOVINE VIRAL DIARRHEA VIRUS  
 FILE REFERENCE: PC10435A  
 CURRENT APPLICATION NUMBER: US/09/433, 262  
 CURRENT FILING DATE: 1999-11-04  
 PRIOR APPLICATION NUMBER: 60/107,908  
 EARLIER FILING DATE: 1998-11-10  
 NUMBER OF SEQ ID NOS: 9  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO: 1  
 LENGTH: 14078  
 TYPE: DNA  
 ORGANISM: Bovine Viral Diarrhea Virus  
 US-09-433-262-1

Query Match 21.9%; Score 251.4; DB 3; Length 14078;  
 Best Local Similarity 94.2%; Pred. No. 1.6e-68;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 404 ATGTAGCCGATGCCAGAAAGCATAGGAGGTGAAATGGACGGGAACCTAAGATG 463  
 Db 4532 ATGTCAGCCGATGCCAGAAAGCATAGGAGGTGAAATGGACGGGAACCTAAGATG 4591  
 Qy 464 GCCGATACTGTGCTGAGTAAATGGCTGAAAGGAAACGGACTTTGGCA 523  
 Db 4592 GCCAATACTGTGCTGAGTAAATGGCTGAAAGGAAACGGACTTTGGCA 4651  
 Qy 524 GAGTCAGGTGTTGGCCTCAAGATCACCTACTTGGCACTGATGGAAAGGTTGAT 583  
 Db 4652 GAGTGAGGATGTTGGCCTCAAATCACCTACTTGGCTGATGGAAAGGTTGAT 4711  
 Qy 584 GAGTCAGACTGGCTGATGCCAGGTAAATGGCTGAAAGGAAACGGACTTTGGCA 643  
 Db 4712 GATAACAGAGTGGCTGGATGCCAGGTGGAAATCTCCCGATAACCCACAGATC 4771  
 Qy 644 CCCTATCACATCTCATTTGGTCTCGGATTCAGGGCA 680  
 Db 4772 CCTTGTCACATCTCATTTGGTACGGATGCCCTICA 4808

RESULT 3  
 Sequence 1, Application US/09702330  
 Patent No. 64100.2  
 GENERAL INFORMATION:  
 APPLICANT: Cao, Xuemei  
 APPLICANT: Shppard, Mike  
 TITLE OF INVENTION: ATTENUATED FORMS OF BOVINE VIRAL DIARRHEA VIRUS  
 FILE REFERENCE: PC10435A  
 CURRENT APPLICATION NUMBER: US/09/702, 330  
 CURRENT FILING DATE: 2000-10-31  
 PRIOR APPLICATION NUMBER: 09/433, 262  
 PRIOR FILING DATE: 1999-11-04  
 NUMBER OF SEQ ID NOS: 9  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO: 1  
 LENGTH: 14078  
 TYPE: DNA  
 ORGANISM: Bovine Viral Diarrhea Virus  
 US-09-702-330-1

Query Match 21.9%; Score 251.4; DB 4; Length 14078;  
 Best Local Similarity 94.2%; Pred. No. 1.6e-68;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 404 ATGTAGCCGATGCCAGAAAGCATAGGAGGTGAAATGGACGGGAACCTAAGATG 463  
 Db 5032 ATGTCAGCCGATGCCAGAAACCTAAGATG 5091  
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 Db 5092 GCCGATACTGTGCTGAGTAAATGGCTGAAAGGAAACGGACTTTGGCA 5151  
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 Db 5152 GAGTGAGGATGTTGGCCTCAAATCACCTACTTGGCTGATGGAAAGGTTGAT 5211  
 Qy 584 GAGTCAGACTGGCTGATGCCAGGTGGAAATCTCCCGATAACCCACAGATC 643  
 Db 5212 GATAACAGAGTGGCTGGATGCCACGGTGGAAATCTCCCGATAACCCACAGATC 5271  
 Qy 644 CCCTATCACATCTCATTTGGTCTCGGATTCAGGGCA 680  
 Db 5272 CCTTGTCACATCTCATTTGGTACGGATGCCCTICA 5308

RESULT 4  
 Sequence 1, Application US/08859694-A  
 Patent No. 6001613  
 GENERAL INFORMATION:  
 APPLICANT: Donis, Ruben O.  
 APPLICANT: Vassilev, Ventzislav B.  
 TITLE OF INVENTION: A plasmid bearing a cDNA copy of the genome of bovine viral diarrhea virus, chimeric derivatives thereof, and method of producing an infectious bovine viral diarrhea virus using said plasmid  
 FILE REFERENCE: UNN5110  
 CURRENT APPLICATION NUMBER: US/08/859, 694A  
 CURRENT FILING DATE: 1997-05-21  
 PRIOR APPLICATION NUMBER: 60/018, 246  
 PRIOR FILING DATE: 1996-05-24  
 NUMBER OF SEQ ID NOS: 1  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO: 1  
 LENGTH: 14578  
 TYPE: DNA  
 ORGANISM: bovine viral diarrhea virus  
 US-08-859-694-1

Query Match 21.9%; Score 251.4; DB 3; Length 14578;  
 Best Local Similarity 94.2%; Pred. No. 1.6e-68;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 404 ATGTAGCCGATGCCAGAAAGCATAGGAGGTGAAATGGACGGGAACCTAAGATG 463  
 Db 5032 ATGTCAGCCGATGCCAGAAACCTAAGATG 5091  
 Qy 464 GCCGATACTGTGCTGAGTAAATGGCTGAAAGGAAACGGACTTTGGCA 523  
 Db 5092 GCCGATACTGTGCTGAGTAAATGGCTGAAAGGAAACGGACTTTGGCA 5151  
 Qy 524 GAGTCAGCATGTTGGCCTCAAGATCACCTACTTGGCACTGATGGAAAGGTTGAT 583  
 Db 5152 GAGTGAGGATGTTGGCCTCAAATCACCTACTTGGCTGATGGAAAGGTTGAT 5211  
 Qy 584 GAGTCAGACTGGCTGATGCCAGGTGGAAATCTCCCGATAACCCACAGATC 643  
 Db 5212 GATAACAGAGTGGCTGGATGCCACGGTGGAAATCTCCCGATAACCCACAGATC 5271  
 Qy 644 CCCTATCACATCTCATTTGGTCTCGGATTCAGGGCA 680  
 Db 5272 CCTTGTCACATCTCATTTGGTACGGATGCCCTICA 5308

RESULT 5  
 Sequence 3, Application US/09819993  
 Patent No. 6336692  
 GENERAL INFORMATION:  
 APPLICANT: GONG, Fangcheng et al.  
 APPLICANT: GONG, Fangcheng et al.

Qy 404 ATGTAGCCGATGCCAGAAAGCATAGGAGGTGAAATGGACGGGAACCTAAGATG 463  
 Db 4532 ATGTCAGCCGATGCCAGAAACCTAAGATG 4591

TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES  
 TITLE OF INVENTION: THEREOF  
 FILE REFERENCE: CLO01195  
 CURRENT APPLICATION NUMBER: US/09/819,993  
 CURRENT FILING DATE: 2001-03-29  
 NUMBER OF SEQ ID NOS: 5  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO 3  
 LENGTH: 28001  
 TYPE: DNA  
 ORGANISM: Human  
 FEATURE: misc\_feature  
 NAME/KEY: misc\_feature  
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 OTHER INFORMATION: n = A,T,C or G

Query Match Similarity 10.2%; Score 116.8; DB 4; Length 28001;  
 Best Local Similarity 88.2%; Pred. No. 6.9e-26;  
 Matches 127; Conservative 0; Mismatches -17; Indels 0; Gaps 0;

Qy 1004 CTGAACTTTCCTTTATTTTGAGATGGAGCTTGACTCTGCTGCCAGCTGGAGTC 1063  
 Db 23843 CTTTTTTTTTTTTTTTTTGAGATGGAAATTGGCTCTGCGCCAGCTGGAGTC 23784

Qy 1064 CAGTGTGTGATCTGAGCTACTGACACTCTGCTTCAAGGAATTCTCCAT 1123  
 Db 23783 CAGTGTGTGATCTGAGCTACTGACACTCTGACTCCTGGTTCAAGGCATTCTGTGA 23724

Qy 1124 CTAGGCTCTGAGTAGCTGGAT 1147  
 Db 23723 CTAGCCTCTGAGTAGCTGGAT 23700

RESULT 6  
 US-09-804-471A-3  
 / Sequence 3, Application US/09804471A  
 / PATENT NO. 6419269  
 / GENERAL INFORMATION:  
 / APPLICANT: WEBSTER, Marion et al.  
 / TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES  
 / TITLE OF INVENTION: THEREOF  
 / FILE REFERENCE: CLO01164  
 / CURRENT APPLICATION NUMBER: US/09/804,471A  
 / CURRENT FILING DATE: 2001-03-13  
 / NUMBER OF SEQ ID NOS: 4  
 / LENGTH: 174493  
 / SOFTWARE: FastSEQ for Windows Version 4.0  
 / SEQ ID NO 3  
 / TYPE: DNA  
 / ORGANISM: Human  
 / FEATURE: misc\_feature  
 NAME/KEY: misc\_feature  
 LOCATION: (1)..(174493)  
 OTHER INFORMATION: n = A,T,C or G

Query Match Similarity 9.8%; Score 112.4; DB 4; Length 174493;  
 Best Local Similarity 88.4%; Pred. No. 4.9e-24;  
 Matches 122; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 1009 TCTTTTCTTATTTGAGATGGAGCTTGCTGCCAGCTGGAGTCAGTC 1068  
 Db 119174 TTTTTTTTTTTTTAGAAGGAGTCGCTGCCAGCTGGAGTCAGTC 119233

Qy 1069 GTGTGATCTGAGCTACTGACACTCTGTCAGCAATTCTCCATCTGAG 1128  
 Db 119234 GTGTGATCTGAGCTACTGACACTCTGTCAGTGTCTGGTTCAAGTC 119293

Qy 1129 CCTCCCTGAGTAGCTGGAA 1146

Db 119294 CCTCCCGAGTAGCTGGAA 119311

RESULT 7  
 US-09-292-542A-1/C  
 / Sequence 1, Application US/09292542A  
 / Patent No. 6531279  
 / GENERAL INFORMATION:  
 / APPLICANT: Blumenfeld, Marta  
 / APPLICANT: Chumakov, Ilya  
 / APPLICANT: Bouqueletet, Lydie  
 / TITLE OF INVENTION: Genomic Sequence Of The 5-Lipoxygenase-Activating Protein (FLAP)  
 / Patent No. 6531279  
 / TITLE OF INVENTION: Polymorphic Markers Thereof And Methods For Detection Of Asthma.  
 / CURRENT APPLICATION NUMBER: US/09/292,542A  
 / CURRENT APPLICATION NUMBER: US/09/292,542A  
 / PRIORITY NUMBER: US 60/081893  
 / PRIORITY NUMBER: US 60/081893  
 / PRIORITY NUMBER: US 60/091314  
 / PRIORITY NUMBER: US 60/091314  
 / PRIORITY NUMBER: 1998-06-30  
 / PRIORITY NUMBER: US 60/123406  
 / PRIORITY NUMBER: 1999-03-08  
 / PRIORITY NUMBER: US 60/123406  
 / NUMBER OF SEQ ID NOS: 15  
 / SOFTWARE: Patent .pm  
 / SEQ ID NO 1  
 / LENGTH: 43069  
 / TYPE: DNA  
 / ORGANISM: homo sapiens  
 / FEATURE:  
 / NAME/KEY: misc\_feature  
 / LOCATION: 1..7708  
 / OTHER INFORMATION: Potential 5' regulatory region  
 / NAME/KEY: misc\_feature  
 / LOCATION: 36604..43069  
 / OTHER INFORMATION: potential 3' regulatory region  
 / NAME/KEY: exon  
 / LOCATION: 7709..7852  
 / OTHER INFORMATION: exon1  
 / NAME/KEY: exon  
 / LOCATION: 16236..16335  
 / OTHER INFORMATION: exon2  
 / NAME/KEY: exon  
 / LOCATION: 24227..24297  
 / OTHER INFORMATION: exon3  
 / NAME/KEY: exon  
 / LOCATION: 28133..28214  
 / OTHER INFORMATION: exon4  
 / NAME/KEY: exon  
 / LOCATION: 36128..36605  
 / OTHER INFORMATION: exon5  
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 / LOCATION: 7783..7785  
 / OTHER INFORMATION: ATG  
 / NAME/KEY: misc\_feature  
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 / OTHER INFORMATION: stop : TAA  
 / NAME/KEY: polyA\_signal  
 / LOCATION: 36581..36586  
 / OTHER INFORMATION: AATAAA  
 / NAME/KEY: misc\_feature  
 / LOCATION: 7008..8116  
 / OTHER INFORMATION: homology with sequence in ref genbank : M60470  
 / NAME/KEY: misc\_feature  
 / LOCATION: 15995..16549  
 / OTHER INFORMATION: homology with sequence in ref genbank : M63259  
 / NAME/KEY: misc\_feature  
 / LOCATION: 24059..24597  
 / OTHER INFORMATION: homology with sequence in ref genbank : M63260  
 / NAME/KEY: misc\_feature  
 / LOCATION: 27873..28412  
 / OTHER INFORMATION: homology with sequence in ref genbank : M63261  
 / NAME/KEY: misc\_feature



RESULT 8  
 US-09-685-853A-3  
 Sequence 3, Application US/09685853A  
 Patent No. 6419270  
 GENERAL INFORMATION:  
 APPLICANT: WEI, Ming-Hui et al.  
 TITLE OF INVENTION: ISOLATED HUMAN PHOSPHATASE PROTEINS,  
 NUCLEIC ACID MOLECULES ENCODING HUMAN PHOSPHATASE PROTEINS,  
 AND USES THEREOF  
 CURRENT APPLICATION NUMBER: US/09/685, 853A  
 CURRENT FILING DATE: 2002-05-06  
 PRIORITY NUMBER: 60/182,194  
 PRIORITY FILING DATE: 2000-02-14  
 NUMBER OF SEQ ID NOS: 3  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO 3  
 LENGTH: 74962

TYPE: DNA  
 ORGANISM: Homo sapien  
 FEATURE: misc\_feature  
 NAME/KEY: (1)...(74962)  
 LOCATION: n = A,T,C or G

US-09-685-853A-3

Query Match 9.6%; Score 109.8; DB 4; Length 74962;  
 Best Local Similarity 87.6%; Pred. No. 2e-23;  
 Matches 120; Conservative 0; Mismatches 17; Indels 0;  
 OTHER INFORMATION: n = A,T,C or G

Qy 1011 TTTTCCTTTTATTTTTGAGATGGACTCTCTGCTGTGCCAGCTGAGTCAGTGGT 1070  
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Qy 1071 GTGATCTCAGTCTACTGAACCTCTGCTCCGGGTCAAGAAATCTCCATCTAGCC 1130  
 Db 65351 GTGATCTCAGCTCACTGAACCTTGGCTCCGGGTCAAGGATCTCTGGCTCAAGT 65410

Qy 1131 TCTTGAGTAGCTGGAT 1147  
 Db 65411 TCTGAGTAGCTGGAT 65427

US-09-641-638-4/C  
 Sequence 4, Application US/09641638  
 Patent No. 642648  
 GENERAL INFORMATION:  
 APPLICANT: Blumenfeld, Marta  
 APPLICANT: Bougueret, Lydie  
 APPLICANT: Cohen, Annick  
 APPLICANT: Chumakov, Ilya  
 FILE REFERENCE: GENSET\_051CP1

RESULT 9  
 US-09-641-638-4/C  
 Sequence 4, Application US/09641638  
 Patent No. 642648  
 GENERAL INFORMATION:  
 APPLICANT: Blumenfeld, Marta  
 APPLICANT: Bougueret, Lydie  
 APPLICANT: Cohen, Annick  
 APPLICANT: Chumakov, Ilya  
 TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING GENES INVOLVED IN ARACHIDONIC ACID METABOLISM  
 FILE REFERENCE: GENSET\_051CP1

CURRENT FILING DATE: 2000-08-16  
 PRIOR APPLICATION NUMBER: US 60/133,200  
 PRIOR FILING DATE: 1999-05-07  
 PRIOR APPLICATION NUMBER: US 60/133,200  
 PRIOR FILING DATE: 1999-05-07  
 PRIOR APPLICATION NUMBER: US 09/275,267  
 PRIOR FILING DATE: 1999-03-23  
 PRIOR APPLICATION NUMBER: US 60/119,917  
 PRIOR FILING DATE: 1999-02-12  
 NUMBER OF SEQ ID NOS: 1304  
 SOFTWARE: Patent.pm  
 SEQ ID NO 4  
 LENGTH: 955

TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:

RESULT 10  
 US-09-641-638-5/C  
 Sequence 5, Application US/09641638  
 Patent No. 642648  
 GENERAL INFORMATION:  
 APPLICANT: Blumenfeld, Marta  
 APPLICANT: Bougueret, Lydie  
 APPLICANT: Chumakov, Ilya  
 APPLICANT: Cohen, Annick  
 TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING GENES INVOLVED IN ARACHIDONIC ACID METABOLISM  
 FILE REFERENCE: GENSET\_051CP1

CURRENT FILING DATE: 2000-08-16  
 PRIOR APPLICATION NUMBER: US 60/1502,330  
 PRIOR FILING DATE: 1999-05-07  
 PRIOR APPLICATION NUMBER: US 09/275,267  
 PRIOR FILING DATE: 1999-05-07  
 PRIOR APPLICATION NUMBER: US 60/119,917  
 PRIOR FILING DATE: 1999-02-12  
 NUMBER OF SEQ ID NOS: 1304  
 SOFTWARE: Patent.pm  
 SEQ ID NO 5  
 LENGTH: 955

TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:





NAME/KEY: SITE  
 LOCATION: (1284)  
 OTHER INFORMATION: n equals a,t,g, or c  
 FEATURE:  
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 LOCATION: (1287)  
 OTHER INFORMATION: n equals a,t,g, or c  
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 NAME/KEY: SITE  
 LOCATION: (1378)  
 OTHER INFORMATION: n equals a,t,g, or c  
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 NAME/KEY: SITE  
 LOCATION: (1912)  
 OTHER INFORMATION: n equals a,t,g, or c  
 FEATURE:  
 NAME/KEY: SITE  
 LOCATION: (1913)  
 OTHER INFORMATION: n equals a,t,g, or c  
 FEATURE:  
 NAME/KEY: SITE  
 LOCATION: (1935)  
 OTHER INFORMATION: n equals a,t,g, or c  
 FEATURE:  
 NAME/KEY: SITE  
 LOCATION: (1947)  
 OTHER INFORMATION: n equals a,t,g, or c  
 US-10-049-847-111

Query Match 9.2%; Score 106; DB 4; Length 2876;  
 Best Local Similarity 85.5%; Pred. No. 4.6e-23;  
 Matches 118; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

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 Db 2873 TTTCCTTTTTTTTTGATGGAAATCTCACCTGTGGCCAGGTGGGTGCAAGTGCAGTG 2814

Qy 1069 GTGTGATCTCAGCTTACTGCAACCTCTGCTCCGGTTCAAGCAATTCTCCATCTCAG 1128  
 Db 2813 GAGCAAATCTCAGCTCACTGACCCCTGGCTCCAGGTTCAAGCAATTCTCCATCTCAG 2754

Qy 1129 CCTCCTGAGTAGCTGGGA 1146  
 Db 2753 CCTCCTGAGTAGCTGGGA 2736

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Search completed: December 1, 2003, 09:38:32  
 Job time : 95 secs

RESULT 15  
 US-10-049-847-22/C  
 Sequence 22, Application US/03489847  
 Patent No. 6476195  
 GENERAL INFORMATION:  
 APPLICANT: Rosen et al  
 TITLE OF INVENTION: 98 Human Secreted Proteins  
 FILE REFERENCE: P2031P1  
 CURRENT APPLICATION NUMBER: US/09/489,847  
 CURRENT FILING DATE: 2000-01-24  
 EARLIER APPLICATION NUMBER: PCT/US99/17130  
 EARLIER FILING DATE: 1999-07-29  
 EARLIER APPLICATION NUMBER: 60/094,657  
 EARLIER FILING DATE: 1998-07-30  
 EARLIER APPLICATION NUMBER: 60/095,486  
 EARLIER FILING DATE: 1998-08-05  
 EARLIER APPLICATION NUMBER: 60/096,319  
 EARLIER FILING DATE: 1998-08-12  
 EARLIER APPLICATION NUMBER: 60/095,454  
 EARLIER FILING DATE: 1998-08-06  
 EARLIER APPLICATION NUMBER: 60/095,455  
 EARLIER FILING DATE: 1998-08-06  
 NUMBER OF SEQ ID NOS: 376  
 SOFTWARE: Patentin Ver. 2.0  
 SEQ ID NO: 22  
 LENGTH: 2876  
 TYPE: DNA

GenCore - version 5.1.6  
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OM nucleic - nucleic search, using sw model  
Run on: December 1, 2003, 07:30:33 ; Search time 1865 Seconds  
(without alignments)  
2026.279 Million cell updates/sec

Title: US-10-049-742-22  
Perfect score: 1147  
Sequence: 1 gccttggtaaaggcagaata.....gccttcgttagtgcgtggat 1147

Scoring table: IDENTITY\_NUC  
GapOp 10.0 , GapExt 1.0

Searched: 2190069 seqs, 1647345023 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing First 45 summaries

Database :

Published Applications NA:  
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16: /cgn2\_6/pododata/1/pubnra/us60\_new\_pub.seq:\*

17: /cgn2\_6/pododata/1/pubnra/us60\_pubcomb.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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C 1	1146	99.9	3090	12 US-09-814-353-19835	Sequence 19835, A
C 2	1125	98.1	2945	14 US-10-198-046-12415	Sequence 12415, A
C 3	743	64.8	754	12 US-10-196-534-43	Sequence 43, App1
C 4	743	64.8	754	14 US-10-097-340-182	Sequence 182, App1
C 5	453	39.5	7453	11 US-09-764-391-8949	Sequence 8949, App1
C 6	293.2	25.6	443	12 US-09-814-253-14171	Sequence 14171, A
C 7	257	22.4	259	12 US-09-814-253-1424	Sequence 1424, App1
C 8	257	22.4	259	12 US-09-814-253-7786	Sequence 7786, App1
C 9	251.4	21.9	12572	14 US-10-28-106A-10	Sequence 10, App1
C 10	251.4	21.9	14078	12 US-10-134-388-1	Sequence 1, App1
C 11	251.4	21.9	16713	14 US-10-228-406A-9	Sequence 9, App1
C 12	234.6	20.5	339	10 US-09-667-701-850	Sequence 850, App1
C 13	137.6	12.0	510	12 US-09-814-253-4106	Sequence 4106, App1
C 14	137.6	12.0	510	12 US-09-814-253-10412	Sequence 10412, App1
C 15	137	11.9	598	12 US-09-814-253-16796	Sequence 16796, App1
C 16	137	11.9	621	14 US-10-198-346-9074	Sequence 9074, App1

Result No.	Score	Query	Match	Length	DB ID	Description
C 1	1146	99.9	3090	12 US-09-814-353-19835	Sequence 19835, A	Sequence 19835, A
C 2	1125	98.1	2945	14 US-10-198-046-12415	Sequence 12415, A	Sequence 12415, A
C 3	743	64.8	754	12 US-10-196-534-43	Sequence 43, App1	Sequence 43, App1
C 4	743	64.8	754	14 US-10-097-340-182	Sequence 182, App1	Sequence 182, App1
C 5	453	39.5	7453	11 US-09-764-391-8949	Sequence 8949, App1	Sequence 8949, App1
C 6	293.2	25.6	443	12 US-09-814-253-14171	Sequence 14171, A	Sequence 14171, A
C 7	257	22.4	259	12 US-09-814-253-7786	Sequence 7786, App1	Sequence 7786, App1
C 8	257	22.4	12572	14 US-10-28-106A-10	Sequence 10, App1	Sequence 10, App1
C 9	251.4	21.9	14078	12 US-10-134-388-1	Sequence 1, App1	Sequence 1, App1
C 10	251.4	21.9	16713	14 US-10-228-406A-9	Sequence 9, App1	Sequence 9, App1
C 11	234.6	20.5	339	10 US-09-667-701-850	Sequence 850, App1	Sequence 850, App1
C 12	137.6	12.0	510	12 US-09-814-253-4106	Sequence 4106, App1	Sequence 4106, App1
C 13	137.6	12.0	510	12 US-09-814-253-10412	Sequence 10412, App1	Sequence 10412, App1
C 14	137	11.9	598	12 US-09-814-253-16796	Sequence 16796, App1	Sequence 16796, App1
C 15	137	11.9	621	14 US-10-198-346-9074	Sequence 9074, App1	Sequence 9074, App1

#### ALIGNMENTS

RESULT 1  
US-09-814-353-19835/C  
; Sequence 19835, Application US/09814353  
; Publication No. US20030165831A1  
; GENERAL INFORMATION:  
; APPLICANT: Lee, John  
; ATTORNEY: Lillie, James  
; ATTORNEY: Thompson, Pamela  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR THERAPY OF OVARIAN CANCER  
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF OVARIAN CANCER  
; FILE REFERENCE: MRI-006B  
; CURRENT APPLICATION NUMBER: US/09/814,353  
; PRIORITY FILING DATE: 2003-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: MRI-006B  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 488\_525  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
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; PRIORITY APPLICATION NUMBER: US 60/216,820  
; PRIORITY FILING DATE: 2000-07-07  
; PRIORITY APPLICATION NUMBER: US 60/220,661  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/257,672  
; PRIORITY FILING DATE: 2000-12-21  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: US 60/211,940  
; PRIORITY FILING DATE: 2000-06-15  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
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; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
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; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
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; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
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; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
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; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
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; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
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; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
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; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 19835  
; LENGTH: 3090  
; PRIORITY FILING DATE: 2000-03-21  
; PRIORITY APPLICATION NUMBER: US 60/191,031  
; PRIORITY FILING DATE: 2000-07-25  
; PRIORITY APPLICATION NUMBER: US 60/207,124  
; PRIORITY FILING DATE: 2000-05-25  
; PRIORITY APPLICATION NUMBER: FastSEQ for Windows Version 4.0  
; SEQ ID NO: 1







**RESULT 6**  
 US-09-814-353-14171/C  
 Sequence 14171, Application US/09814353  
 Publication No. US20030165831A1  
 GENERAL INFORMATION:  
 APPLICANT: Lee, John  
 APPLICANT: Thompson, Pamela  
 APPLICANT: Lillie, James  
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER  
 FILE REFERENCE: MRI-006B  
 CURRENT APPLICATION NUMBER: US/09/814-353  
 CURRENT FILING DATE: 2001-03-21  
 PRIORITY APPLICATION NUMBER: US 60/191,031  
 PRIORITY FILING DATE: 2000-03-21  
 PRIORITY APPLICATION NUMBER: US 60/207,124  
 PRIORITY FILING DATE: 2000-05-25  
 PRIORITY APPLICATION NUMBER: US 60/211,940  
 PRIORITY FILING DATE: 2000-06-15  
 PRIORITY APPLICATION NUMBER: US 60/216,820  
 PRIORITY FILING DATE: 2000-07-07  
 PRIORITY APPLICATION NUMBER: US 60/220,661  
 PRIORITY FILING DATE: 2000-07-25  
 PRIORITY APPLICATION NUMBER: US 60/257,672  
 PRIORITY FILING DATE: 2000-12-21  
 NUMBER OF SEQ ID NOS: 22337  
 SOFTWARE: Fast-SEQ for Windows Version 4.0  
 SEQ ID NO: 1424  
 LENGTH: 259  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: 1, 2  
 OTHER INFORMATION: n = A,T,C or G  
 US-09-814-353-1424

Query Match 22.4%; Score 257; DB 12; Length 259;  
 Best Local Similarity 100.0%; Pred. No. 1.7e-73;  
 Matches 257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 184 CTATAGACGCTGGCAGTATGGTCATCTGACAAATACTCATCCGGGCTGAGGA 243  
 Db 259 CTATAGACGCTGGCAGTATGGTCATCTGACAAATACTCATCCGGGCTGAGGA 200

Qy 244 GGCCCTCAAGGTTTGCGCAGCTTGGACATTTGCTGAAATGCTGAAAGCGAAGGA 303  
 Db 199 GGCCCTCAAGGTTTGCGCAGCTTGGACATTTGCTGAAATGCTGAAAGCGAAGGA 140

Qy 304 GTATGAGTAACAACTGAGCTGAGGTCTGAGCTGAAATGAGTTCTGTC 363  
 Db 139 GTATGAGTAACAACTGAGCTGAGGTCTGAGCTGAAATGAGTTCTGTC 80

Qy 364 CAAGCTGCAAGTAGTGCCTCAGAGGCCAATGAACTATGATGTGAGCCAAAG 423  
 Db 79 CAGCTGCAAGTAGTGCCTCAGAGGCCAATGAACTATGATGTGAGCCAAAG 20

Qy 252 AGCTTGTGAGCTGGAGCTGGGACATGTTGAACTCATGATGTTGAACTGAGA 311  
 Db 306 AGTTTGTGAGCTGGGACATGTTGAACTCATGATGTTGAACTGAGA 247

Qy 312 TGAACACGAAATGGCAGAAATGAGCTGAGCTGAAATGAGTTCTGTCACACTGC 371  
 Db 246 TGAACACGAAATGGCAGAAATGAGCTGAGCTGAGCTGAAATGAGTTCTGTCACACTGC 187

Qy 372 AAGATGAGCTCAGGAGCAATGAACTATGATGTGAGCTGAGCTGAAAGCTA 431  
 Db 186 AAGATGAGCTCAGGAGCAATGAACTATGATGTGAGCTGAAAGCTA 127

Qy 432 CGAGGTTGA 441  
 Db 126 CGAGGTTGA 117

**RESULT 7**  
 US-09-814-353-1424/C  
 Sequence 1424, Application US/09814353  
 Publication No. US20030165831A1  
 GENERAL INFORMATION:  
 APPLICANT: Lee, John  
 APPLICANT: Thompson, Pamela  
 APPLICANT: Lillie, James  
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER  
 FILE REFERENCE: MRI-006B  
 CURRENT APPLICATION NUMBER: US/09/814-353  
 CURRENT FILING DATE: 2001-03-21  
 PRIORITY APPLICATION NUMBER: US 60/191,031  
 PRIORITY FILING DATE: 2000-03-21  
 PRIORITY APPLICATION NUMBER: US 60/207,124  
 PRIORITY FILING DATE: 2000-05-25  
 PRIORITY APPLICATION NUMBER: US 60/211,940

Qy	4 64	GCCAGATACGTGCTGAATGTPAATGGCTGATCCGCTGTGAGAAAGAGACTTTGGCCA	523
Db	5 048	GCCAGTAAUCUGGCGUGGCAAGUGUAAAUCUGGCAAUCCUGAGGAAGUGACDUTUGGCCA	5107
Qy	5 24	GAGTCAGATGTTGGCCCTCAAGATACCCATTCTCACTGATGGATGGAAGGTGTAT	583
Db	5 108	GAGUCCGAGCAUUGGCCUCAAUCACCUACUTUSCGCUGAUGGAAGGUIGUAU	5167
Qy	5 84	GACATCACAGACTGGCTGGTGTAGGTATCTCCCAAGATACCCACAGAGTC	643
Db	5 158	GRADUACACAGAUGGGCUGGAUGCCAGGUGGGAAUCUCCCAGRAUCACCAAGAGUC	5227
Qy	6 44	CCCTATCACATCTCATGGTCTCTCGGATTCCAGGCA	680
Db	5 228	CCUGGACAUCAUCATDUGGUAGGAGGAAUCUCCAGAUCACCAAGAGUC	5264

RESULT 10  
 US-10-134-288-1  
 Query Match 22.4%; Score 257; DB 12; Length 259;  
 Best Local Similarity 100.0%; Pred. No. 1.7e-73;  
 Matches 257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Matches 257; General Information:

Qy	184	CTATAGACAGTGGCAAGTGGTCACTCTGACAAATACTATCCCGGGCTGAGA	243	APPLICANT: Cao, Yuemei ; SHEPPARD, Mike
Db	259	CTATAGACAGTGGCAAGTGGTCACTCTGACAAATACTATCCGGGCTGAGA	200	TITLE OF INVENTION: ATTENUATED FORMS OF BOVINE VIRAL DIARRHEA VIRUS
Qy	244	GGCCCTCAAGGTGTCGAGCAGTGGACATTGTCAGCAATGCTGAAGAAAGGA	303	CURRENT APPLICATION NUMBER: US/10/134,288
Db	199	GGCCCTCAAGGTGTCGAGCAGTGGACATTGTCAGCAATGCTGAAGAAAGGA	140	PRIOR APPLICATION NUMBER: US/09/702,330
Qy	304	GTTATGAGATGAAACGAAATGGCAGAGAATGAGCTGACCCGGTCAGTAATGAGTCTGTC	363	PRIOR FILING DATE: 2000-10-31
Db	139	GTTATGAGATGAAACGAAATGGCAGAGAATGAGCTGACCCGGTCAGTAATGAGTCTGTC	80	PRIOR APPLICATION NUMBER: 09/433,262
Qy	364	CAAGCTGCAAATGACTCAGGAGCAGAACTATGATGTTAGCCGATGCCAAGG	423	PRIOR FILING DATE: 1999-11-04
Db	79	CAAGCTGCAAATGACTCAGGAGCAGAACTATGATGTTAGCCGATGCCAAGG	20	NUMBER OF SEQ ID NOS: 9
				SOFTWARE: PatentIn ver. 2.0
				SEQ ID NO: 1
				LENGTH: 14,078
				TYPE: DNA
				ORGANISM: Bovine Viral Diarrhea Virus
				US-10-134-288-1

424 AAAGCATAGGAGGTG 440

RESULT 9		RESULT 11	
US-10-228-406A-10	Qy 404 ATGTGTAGCCGATGCCAAGGAAAGCATGGAGGTTGAATGACCGGAACCTAAGAGT 463	US-10-228-406A-9	Sequence 9, Application US/10228406A
Sequence 10, Application US/10228406A	Db 4532 ATGTGGACGCCATGCCGAAAGCATGGAGGTTGAATGACCGGAACCTAAGAGT 4591		Publication No. US0030104612A1
Publication No. US20030104612A1			GENERAL INFORMATION:
GENERAL INFORMATION:			
APPLICANT: Cao, Xumei			
APPLICANT: Zybartz, Gabriele			
TITLE OF INVENTION: GENERATION OF TYPE I/TYPE II HYBRID FORM OF BOVINE			
TITLE OF INVENTION: VIRAL DIARRHEA VIRUS FOR USE AS VACCINE			
FILE REFERENCE: PC11051A			
CURRENT APPLICATION NUMBER: US/10/228,406A			
CURRENT FILING DATE: 2002-08-27			
NUMBER OF SEQ ID NOS: 12			
SOFTWARE: Patentin ver. 2.1			
SEQ ID NO 10			
LENGTH: 12572			
TYPE: RNA			
ORGANISM: Artificial Sequence			
FEATURE: Hybrid BVD virus NADL890			
OTHER INFORMATION: Hybrid BVD virus NADL890			
US-10-228-406A-10	Qy 21.9%; Score 251.4; DB 14; Length 12572;		
Query Match			
Best Local Similarity 72.2%; Pred. No. 9.2e-71;			
Matches 200; Conservative 61; Mismatches 16; Indels 0; Gaps 0;			
Qy 404 ATGTGTAGCCGATGCCAAGGAAAGCATGGAGGTTGAATGACCGGAACCTAAGAGT 463			Sequence 9, Application US/10228406A
Db 4998 AUGGCAAGCAGGAAAGAUAGAGGTTGAATGACCGGAACCTAAGAGT 5047			Publication No. US0030104612A1
			GENERAL INFORMATION:
			APPLICANT: Cao, Xumei
			APPLICANT: Zybartz, Gabriele

TITLE OF INVENTION: GENERATION OF TYPE I/TYPE II HYBRID FORM OF BOVINE  
 TITLES OF INVENTION: VIRAL DIARRHEA VIRUS FOR USE AS VACCINE  
 FILE REFERENCE: PCL1051A  
 CURRENT APPLICATION NUMBER: US/10/228,406A  
 CURRENT FILING DATE: 2002-08-27  
 NUMBER OF SEQ ID NOS: 12  
 SEQ ID NO 9  
 SOFTWARE: PatentIn Ver. 2.1  
 LENGTH: 16713  
 TYPE: DNA  
 ORGANISM: Artificial Sequence  
 FEATURE:  
 OTHER INFORMATION: pNADL890 vector

Query Match 21.9%; Score 251.4; DB 14; Length 16713;  
 Best Local Similarity 94.2%; Pred. No. 1.1e-70;  
 Matches 261; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 404 ATGTAGCGATGCCAAAGAACATGGAGGTTGAAATTGACCGGAACCTTAAGT 463  
 Db 4988 ATGNCAGCCGATCCAGGGAAACCATAGGGTTGAAATTGACCGGAACCTTAAGT 5047

Qy 464 GCCGATAGCTGTCTGAGTCAATAGGCYCATCCTGTGAGGAGGACTTTGGCA 523  
 Db 5048 GCCGATAGCTGTCTGAGTCAATAGGCYCATCCTGTGAGGAGGACTTTGGCA 5107

Qy 524 GAGTCAAAGCATGTGGCCCTCAAGATCACCTACTTTGCACTGATGAAAGGTAT 583  
 Db 5108 GAGTCAGCATGTGGCCCTCAAGATCACCTACTTTGCACTGATGAAAGGTAT 5167

Qy 584 GACATCACAGATGGCTGGATGCCAGCTGGTAGTATCTCCCGATAACCAAGAGTC 643  
 Db 5168 GATATCACAGATGGCTGGATGCCAGCTGGTAGTATCCCGATAACCAAGAGTC 5227

Qy 644 CCCTPATCACTCTCATTTGGTTCTGGATTCAGCA 680  
 Db 5228 CCTTGTCACATCTCATTTGGTTCACTGGATGCCCTTCA 5264

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RESULT 12  
 US-09-867-701-8500  
 ; Sequence 8500, Application US/09867701  
 ; Patent No. US2002132237A1  
 ; GENERAL INFORMATION:  
 ;  
 ; APPLICANT: Aglacet, Paul A.  
 ; APPLICANT: Jones, Robert  
 ; APPLICANT: Harlocker, Susan L.  
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY  
 ; AND DIAGNOSIS OF OVARIAN CANCER  
 ; FILE REFERENCE: 210121\_497  
 ; CURRENT FILING DATE: 2001-05-29  
 ; NUMBER OF SEQ ID NOS: 10912  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 8500  
 ; LENGTH: 339  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapien  
 ; US-09-867-701-8500

Query Match 20.5%; Score 234.6; DB 10; Length 339;  
 Best Local Similarity 98.0%; Pred. No. 4.4e-56;  
 Matches 248; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

Qy 896 TTCCAAAGTTGATGCCCTTCCTTCATGTCGGGACTCAAAGGCTGT 955  
 Db 23 TTCAACCTGTGATGCCCTTCCTTCATGTCGGGACTCAAAGGCTGT 82

Qy 956 AGCACAGGATGGAGTTGATCCCTCCCCAACACTAGAACTGAATCTTT 1015  
 Db 83 AGCACAGGATGGAGTTGATCCCTCCCCAACACTAGAACTGAATCTTT 142

RESULT 13  
 US-09-814-353-4106/c  
 ; Sequence 4106, Application US/09814353  
 ; Publication No. US20030165831A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lee, John  
 ; APPLICANT: Thompson, Pamela  
 ; APPLICANT: Lillie, James  
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND TREATMENT OF OVARIAN CANCER  
 ; FILE REFERENCE: MRI-006B  
 ; CURRENT FILING DATE: 2001-03-21  
 ; PRIOR APPLICATION NUMBER: US 60/191,031  
 ; PRIOR FILING DATE: 2000-03-21  
 ; PRIOR APPLICATION NUMBER: US 60/207,124  
 ; PRIOR FILING DATE: 2000-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/211,940  
 ; PRIOR FILING DATE: 2000-06-15  
 ; PRIOR APPLICATION NUMBER: US 60/216,820  
 ; PRIOR FILING DATE: 2000-07-07  
 ; PRIOR APPLICATION NUMBER: US 60/220,661  
 ; PRIOR FILING DATE: 2000-07-25  
 ; PRIOR APPLICATION NUMBER: US 60/257,672  
 ; PRIOR FILING DATE: 2000-12-21  
 ; NUMBER OF SEQ ID NOS: 22337  
 ; SOFTWARE: FastSEQ for Windows Version 4.0  
 ; SEQ ID NO 4106  
 ; LENGTH: 510  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc\_feature  
 ; LOCATION: 32  
 ; OTHER INFORMATION: n = A,T,C or G  
 US-09-814-353-4106

Query Match 12.0%; Score 137.6; DB 12; Length 510;  
 Best Local Similarity 96.6%; Pred. No. 3.3e-34;  
 Matches 140; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCCTTCGGTCAAGCAGAAATTAAATGGCAGGGAAATGACCTGTAGTGGGGCTA 60  
 Db 163 GCCTTCGGTCAAGCAGAAATTAAATGGCAGGGAAATGACCTGTAGTGGGGCTA 104

Qy 61 CTGCCAGCCGAAAGGAAAGTGGCTGACTCTGACATGGCTTCCTGAGATGA 120  
 Db 103 CTGCCAGCCGAAAGGAAAGTGGCTGACTCTGACATGGCTTCCTGAGATGA 44

RESULT 14  
 US-09-814-353-10412/c  
 ; Sequence 10412, Application US/09814353  
 ; Publication No. US20030165831A1  
 ; GENERAL INFORMATION:

APPLICANT: Lee, John, Pamela  
 APPLICANT: Lillie, James  
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER  
 FILE REFERENCE: MRI-006B  
 CURRENT APPLICATION NUMBER: US/09/814,353  
 CURRENT FILING DATE: 2001-03-21  
 PRIOR APPLICATION NUMBER: US 60/191,031  
 PRIOR FILING DATE: 2000-03-21  
 PRIOR APPLICATION NUMBER: US 60/207,124  
 PRIOR FILING DATE: 2000-05-25  
 PRIOR APPLICATION NUMBER: US 60/211,940  
 PRIOR FILING DATE: 2000-06-15  
 PRIOR APPLICATION NUMBER: US 60/216,820  
 PRIOR FILING DATE: 2000-07-07  
 PRIOR APPLICATION NUMBER: US 60/220,661  
 PRIOR FILING DATE: 2000-07-25  
 PRIOR APPLICATION NUMBER: US 60/257,672  
 PRIOR FILING DATE: 2000-12-21  
 NUMBER OF SEQ ID NOS: 22037  
 SOFTWARE: FastSEQ for Windows Version 4.0  
 SEQ ID NO: 10412  
 LENGTH: 510  
 TYPE: DNA  
 ORGANISM: Homo sapiens  
 FEATURE:  
 NAME/KEY: misc\_feature  
 LOCATION: 32 OTHER INFORMATION: n = A,T,C or G

US-09-814-353-10412

Query Match 12.0%; Score 137.6; DB 12; Length 510;  
 Best Local Similarity 96.6%; Pred. No. 3.3e-34;  
 Matches 140; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 GCCTTGGTCAAGCAGATAATTAAATAGGCAGGGAAATGCACTGTAGCTAGTGGGGCTA 60  
 Db 163 GCCTTGGTCAAGCAGATAATTAAATAGGCAGGGAAATGCACTGTAGCTAGTGGGGCTA 104

Qy 61 CTGCCACCTGAGGAAGGGCTCGACTCTGACCATGCTGGTTCTGAGGATGA 120  
 Db 103 CTGCCACCTGAGGAAGGGCTCGACTCTGACCATGCTGGTTCTGAGGATGA 44

Qy 121 GCTAAACCCCTTCATGTACTCGGG 145  
 Db 43 GCTAAACCCCTTCATGTACTCGGG 19

RESULT 15  
 US-09-814-353-16796/C  
 Sequence 16796, Application US/09814353  
 Publication No. US20030165831A1  
 GENERAL INFORMATION:  
 APPLICANT: Lee, John  
 APPLICANT: Lillie, James  
 TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF OVARIAN CANCER  
 FILE REFERENCE: MRI-006B  
 CURRENT APPLICATION NUMBER: US/09/814,353  
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